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SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 12-30-65

WELL NO. 1ET

TILLAMOOK AREA (FIELD)

Offshore (COUNTY)

OCS-P 072 (SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY 1965	DEPTHS FROM	DEPTHS TO	REMARKS
12-27	-	5212'	

Continued to wait on weather. Released marine conductor at 04.05 hrs., remaining in contact with the hole. Deballasted barge to 26' draft. Slacked off on anchor lines and raised pipe - lost contact with hole. Weather -

Time	Wind	Seas	Barometer	Pitch	Roll
03.00	50-60+65	25-30+38	29.17	6	3½
06.00	65-75+85	35-40+45	29.00	6-10	4
07.00	80-90+105	40-45+50	28.92	6-8	4
09.00	45-55+70	40-45+50	28.92	6-8	3-4½
11.00	45-55+60	35-40+45	28.94	5-8+9	4½

Pulled bottom hole assembly at 1600 hrs. Disconnected flow line at slip joint and BOP hose. Repositioned barge to original position. #4 anchor had slipped 366'.

DAY 1965	DEPTHS FROM	DEPTHS TO	REMARKS
12-28	-	5212'	

Waited on weather and mobot operator. Did general rig maintenace and repair.

Time	Wind	Seas	Barometer	Pitch	Roll
03.00	5-15	10-12+15	28.99	3	1½
06.00	0	10-12+15	29.00	3	1½

Made static test, waited on mobot operator. Reset #4 anchor. Mud: wt. 103, vis. 70, w.l. 2.8, f.c. 2/32, pH 9.

DAY 1965	DEPTHS FROM	DEPTHS TO	REMARKS
12-29	-	5212'	

Ran mobot for stab-in. Tensioned all anchors and repositioned barge to locate wellhead. Located same with sonar. Stabbed in with drill pipe. Pulled mobot and waited on weather.

Time	Wind	Seas	Barometer	Pitch	Roll
12.00	35-45+50	14-16+20	29.08	3½	2½
13.00	40-50+60	15-20	29.05	3½	2½
15.00	30-35	16-20+22	28.99	3	2
20.00	25-35	15-20	29.04	2½	2
23.00	25-30	15-20	29.14	2	1½

DAY 1965	DEPTHS FROM	DEPTHS TO	REMARKS
12-30	-	5212'	

Continued to wait on weather.

Time	Wind	Seas	Barometer	Pitch	Roll
01.00	30-35	15-20	29.20	2½	2
03.00	20-25	15-20	29.25	2½	2
05.00	25-30+35	15-20	29.28	2½	2
07.00	15-25	12-18	29.32	2½	2

Latched regan, tested control hoses and pulled BOP stabbing assembly. Rigged up Schlumberger and ran cement bond log. Tested choke and kill lines. Rigged and ran milling assembly.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24"x13 3/8	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8"	5187'

DRILL PIPE SIZES 5"

R. Iden

SIGNED

PD 4A (Rev. 5-63) Printed in U.S.A.

SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 1-4-66

TILLAMOOK AREA
(FIELD)

OFFSHORE
(COUNTY)

WELL NO. 1-ET

P-072-1ET
(SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY 1965	DEPTHS FROM	DEPTHS TO	REMARKS
12-31	-	5212'	Milled on fish for 6½ hrs. Tripped for new mill. Milled from 5031' to 5044' in 10½ hrs. Commenced tripping for mill. Mud: wt. 92, vis. 52, w.l. 3.6, f.c. 2/32, diesel 7%
1966 1-1	-	5212'	Pressure tested casing. Finished tripping for new mill. Milled on fish for 6¼ hrs. and made 7'. Pulled out of hole and picked up retrieving string in preparation for bad weather. Ran in with releasing string, Displaced mud from marine conductor with salt water. Waited on weather.

Time	Wind	Seas	Barometer	Pitch	Roll
13.00	35-45	16-20+24	29.69	2½	1½
17.00	45-55	18-20+24	29.58	2½	3½
22.00	40-55	20-24+26	29.50	3	3

DAY	FROM	TO	REMARKS
1-2	-	5212'	Waited on weather. Released marine conductor. Commenced changing out counter-weight lines.

Time	Wind	Seas	Barometer	Pitch	Roll
00.00	40-50	24-26	29.51	3	3
05.00	30-38	24-26	29.55	3-3/10	3-7/10
06.00	20-23	24-26	29.56	3-3/10	3-7/10
09.00	30-35	24-26	29.54	2-4/10	2-4/10
13.00	25-35	22-24	29.55	2-1/3	3-1/2
18.00	20-30+45	20-22	29.52	2½	3
23.00	25-30	18-20	29.50	3	3

DAY	FROM	TO	REMARKS
1-3	-	5212'	Continued to change out counter-weight lines. Waited on weather.

Time	Wind	Seas	Barometer	Pitch	Roll
02.00	30-35	18-22	29.50	3½	3½
06.00	15-20	18-22	29.49	3½	3½
10.00	5-12	14-16	29.34	2-3/10	2-8/10
15.00	0	10-12	29.13	1½	1-2/10
19.00	20-30	16-18	29.20	3	2
23.00	20-30	14-16	29.28	2-4	1½-3

DAY	FROM	TO	REMARKS
1-4	-	5212'	Continued to wait on weather. Ballasted barge to 38½' draft and moved over location. Jumped mobot and lost hydraulic pressured. Repaired same and lost hydraulic pressure again after running mobot 100'.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24"x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040	5212'	9 5/8"	5187'

DRILL PIPE SIZES 5"

R. Iden
SIGNED

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SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 1-10-66

TILLAMOOK AREA (FIELD)

OFFSHORE (COUNTY)

WELL NO. 1ET

OCS-P 072 (SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
1-5	-	5212'	Repaired mobot. Located wellhead and moved barge onto location. Ran stinger into wellhead. Pulled mobot. Did not connect marine conductor because of bad weather forecast. Pulled stinger string and lost contact with the hole. Weather -

Time	Wind	Seas	Barometer	Pitch	Roll
05.30	40-45+55	10-15	29.54	2	1½
09.00	45-55+65	14-16+18	29.40	3	2½
11.00	45-55+68	18-20+24	29.42	4	3
13.30	45-55+65	25-28+30	29.37	5	3½
18.00	30-35+40	25-30+35	29.57	5	4
23.00	25-30+40	25-30+35	29.62	5	4

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
1-6	-	5212'	Did general rig maintenance while waiting on weather. Ballasted barge to 39' draft. Weather -

Time	Wind	Seas	Barometer	Pitch	Roll
02.00	40-50	25-30+35	29.72	5	4
06.00	40-50	25-30+34	29.81	4½	4½
11.00	25-30+40	20-25+30	29.99	4½	4½
13.00	25-30+35	20-25+30	30.04	5	5
18.00	0-10+15	18-20+25	30.08	4	5
23.00	25-30	14-16+18	30.00	2	2

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
1-7	-	5212'	Ran in with stinger and waited to connect marine conductor. Maximum weather at 21.00 hrs. Wind 45-50+58; Seas 18-20+25; Barometer 29.46; Pitch 3½; Roll 3½.
1-8	-	5212'	Stabbed marine conductor on BOP. Tested choke and kill lines and displaced salt water in marine conductor with mud. Pulled marine conductor stabbing string. Ran milling assembly. Circulated hole clean. Milled on fish for 14 hrs. Commenced to trip for washover pipe. Mud: wt. 101; vis. 46; w.l. 6.0; f.c. 3/16
1-9	-	5212'	Finished tripping for washover pipe. Washed over fish for 15 hrs. Mud: wt. 102; vis. 56; w.l. 3.2; f.c. 1/32
1-10	-	5212'	Continued to wash over fish for 1 hr. Tripped to prepare for forecasted storm. Stood by to release marine conductor. Pulled out marine conductor releasing string. Tested casing with 2,000 psi for 15 min. Test good. Ran in hole with washover pipe. Washed over fish for 5 hrs. to 5143'. Commenced to trip for overshot. Mud: a.m. wt. 102, vis. 65; w.l. 2.6; f.c. 2/32 pH 8 p.m. wt. 98, vis. 63

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24"x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040	5212'	9 5/8"	5187'

DRILL PIPE SIZES 5"

R. Iden

SIGNED

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SHELL OIL COMPANY

DRILLING REPORT
FOR PERIOD ENDING 1-16-66

TILLAMOOK AREA (FIELD)

OFFSHORE (COUNTY)

WELL NO. 1ET

OCS P-072 (SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
1-11	-	5212'	Finished tripping for overshot. Attempted to catch fish. Pulled out of hole and recovered no fish. Ran in hole with overshot. Pulled out of hole with two joints of drill pipe and a pin end tool joint. Ran in hole with marine conductor releasing string due to bad weather forecast. Mud: wt. 105, vis. 70, w.l. 1.2, f.c. 2/32
1-12	-	5212'	Waited on weather to unload barite from service boat. Did general rig maintenance. Maximum weather: 10.00 hrs; Winds 40-50, Seas 18-20+25; Barometer 29.98; Pitch 3°, Roll 2°.
1-13	-	5212'	Continued to wait on weather to unload barite. Did general rig maintenance. Maximum weather at 10.00 hrs. Winds 40-50+55; Seas 20-22+25, Barometer 29.82; Pitch 2½°, Roll 2°.
1-14	-	5212'	Did general rig maintenance while waiting on weather for 6 hrs. Pulled releasing string. Tested casing, choke and kill lines. Ran in hole with Globe junk basket. Reamed cement from 5008' to 5023'. Tripped for X7R bit (bit #12). Mill on junk basket was worn out. Reamed cement with bit #12 from 5023'-5050'. Mud: wt. 90, vis. 48.
1-15	-	5212'	Continued to ream from 5050' to 5095'. Circulated out gas at 5095' and 4985'. Tested casing to 850 psi only. Continued to ream to 5100'. Made 10 stand short trip. Suspected that there was a hole in the 9-5/8" casing. Mud: a.m. wt. 90, vis. 55, w.l. 1.6, f.c. 1/32 p.m. wt. 106, vis. 65
1-16	-	5212'	Circulated and pulled out of hole. Left bit #12 (X7R), junk sub, bit sub and 2 drill collars in hole. Ran in hole with Bowen overshot and fished unsuccessfully. Pulled out of hole to pick up Bowen jars and checked drill collars with magnafluxing tool. Ran in hole caught and pulled fish free with 210,000#. Pulled out of hole and recovered all of fish. Checked subs and drill collars with magnaflux tool. Did general maintenance and repairs while waiting to reposition anchors. Mud: wt. 105, vis. 65.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24"x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8"	5187'

DRILL PIPE SIZES 5"

R. Iden

SIGNED

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SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 1-21-66

WELL NO. 1ET

TILLAMOOK AREA (FIELD)

OFFSHORE (COUNTY)

OCS-P 072 (SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
1966	FROM	TO	
1-17	5212'	5462'	Ran in hole with bit #13 (XC3). Circulated at 5100' - gas offscale for 7 min. Drilled ahead to 5380'. Circulated and conditioned mud. Made 10 stand short trip - could not circulate. Layed down 3 singles and regained circulation at 5256'. Reamed and drilled to 5462'. Circulated and ran in hole to set Baker retrievable bridge plug to test casing. Mud: wt. 106; vis. 64; w.l. 2.0; f.c. 2/32.
1-18	-	5462'	Set bridge plug at 4500' and tested casing with 1100 psi for 10 min. Test good. Pulled up and set bridge plug at 1010'. Tested casing with 1000 psi. Pulled up and displaced mud in marine conductor with salt water. Pulled out of hole and ran in with releasing string. Released marine conductor to work on anchors.
1-19	5462'	5590'	Continued to work on anchors. Connected marine conductor and tested hydraulic choke and kill lines. Pulled releasing string. Displaced salt water from marine conductor with mud. Ran in and retrieved Baker bridge plug. Ran in hole to 4900' with bit #14 (HTC X2). Circulated. Gas cut mud weight to 82#/^{3}ft. Conditioned mud. Reamed and washed to bottom with large amount of ditch gas. Drilled ahead for 30 min. Pulled 7 stands of pipe. Repaired coupling guard to rotary table. Circulated and ran in hole to bottom. Circulated bottoms up and drilled ahead to 5590'. Mud: wt. 108; vis. 60.
1-20	5590'	5744'	Made 7 stand short trip and circulated bottoms up. Drilled ahead and circulated bottoms up at intervals to 5744'. Ran survey and pulled out of hole. Ran in hole with casing tester and tested hydril, 3½" and 5" pipe rams, and choke and kill line. Pulled out testing tool and ran in hole with bit #15 (Smith K2P). Bit #14 made 282' in 14-3/4 hrs. - condition T4B1I. Found bridge at 5010'. Circulated then drilled ahead. Hole packed off. Singled out 4 joints. Could not circulate. Pulled up to 4914'. Circulated out high ditch gas. Staged into hole, circulating out gas at 5112' and 5343'. Mud: wt. 111; vis. 68; w.l. 5.6; f.c. 2/32 Survey at 5744' 4° 30' S 19°E
1-21	5744	5997'	Continued to stage into hole and circulated gas out at 5433', 5610', and 5744'. Drilled ahead to 5997'. Made 5 stand short trip. Circulated out gas and ran survey. Tripped for bit #16. Bit #15 made 253' in 12-3/4 hrs. Circulated out gas at 4823'. Mud: wt. 111; vis. 63; w.l. 4.4; f.c. 2/32 Survey: at 5997' 3° S 11 E

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
28"	538'	698'	24"x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4'	2040'	5212'	9 5/8"	5187'

DRILL PIPE SIZES 5"

R. Iden

SIGNED

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SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 1-27-66

TILLAMOOK AREA (FIELD)

OFFSHORE (COUNTY)

WELL NO. 1ET

OCS P-072 (SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
1-22	5997'	6248'	Staged into hole and circulated out gas at 5270', 5627' and 5997'. Drille ahead for 13½ hrs. to 6248'. Conditioned mud, circulated and ran survey. Tripped for Bit #17. Bit #16 made 251' in 13½ hrs. Mud: wt. 111; vis. 68; w.l. 3.2; f.c. 2/32, pH 9 Survey at 6243' 1½° S 14° E
1-23	6248'	6364'	Circulated at 5493'. Gas cut the mud weight from 112 to 100#/ft^3. Ran in to 6248' and circulated. Gas cut mud weight from 112 to 102#/ft^3. Drille and circulated and raised mud weight. Made five stand short trip at 6364'. Circulated bottoms up and had high gas in mud for 2 hrs. Raised mud weight to 116#/ft^3. Mud: a.m. wt. 112½; vis. 68; w.l. 3.8; f.c. 2/32; pH 9 p.m. wt. 116; vis. 68; w.l. 3.6; f.c. 2/32; pH 9
1-24	6364'	6408'	Drilled to 6381'. Circulated and conditioned the mud. Drilled to 6388'. Circulated bottoms up. Made three stand short trip. Hole in good condition - no drag and no fill. Circulated bottoms up. Alternately drilled and circulated bottoms up to 6408'. Made a 12 stand short trip and circulated bottoms up. Mud was gas cut from 116 to 117^3#/ft. Mud: wt. 115½; vis. 50; w.l. 4.6; f.c. 2/32; pH 9, sd. 3%.
1-25	-	6408'	Continued to circulate for ½ hrs. Pulled 25½ stands, picked up releasing tool and hung pipe on 5" pipe rams in preparation for bad weather. Released drill pipe at the releasing donut and displaced mud in marine conductor with salt water.
1-26	-	6408'	Waited on weather and did general rig maintenance. The marine conductor parted 2' below the slip joint at 06.05 hrs. Tried to secure marine cond. below break with slings. Marine conductor fell over. Jumped diver to 100', but did not locate marine conductor. Pulled diver and ran mobot. Located marine conductor at 385' R.T. Pulled slip joint and drill pipe.
1-27	-	6408'	Recovered two joints of drill pipe. Waited on divers. Prepared equipment to lasso marine conductor. Ran mobot and found drill pipe still in contact with marine conductor and the marine conductor broken off at the top of the Regan and resting on the ocean floor. Pulled mobot and rigged up to stab marine conductor. Recovered drill pipe from marine conductor. Made up spear and fishing assembly and recovered marine conductor with same.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8"	5187'
8 3/4"	5212'	5997'		

DRILL PIPE SIZES 5"

R. Iden

SIGNED

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SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 2-2-66

TILLAMOOK AREA
(FIELD)

OFFSHORE
(COUNTY)

WELL NO. 1ET

OCS-P 072
(SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
1-28	-	6408'	Pulled and layed down five 50' joints of marine conductor and a 23' stub. Pulled and layed down 28 joints of choke and kill lines. Ran mobot to 400' and lost hydraulic pressure. Pulled and repaired mobot. Waited on weather. Maximum weather at 18.00 hrs; Wind 55-65; Barometer 29.58; Sea 18-20+24; Pitch 2°-4½°; Roll 2°.
1-29	-	6408'	Continued to wait on weather. Ran mobot to 150' and lost hydraulic pressure. Pulled and repaired mobot and ran same to bottom. Located BOP stack. Pulled mobot. Made up 13-5/8" spear and stab-in stinger with guide lines. Prepared to jump diver. Waited on weather. Maximum weatherat 22.00 hrs; Wind 35-40+50 mph; Barometer 29.40; Sea 14-16; Pitch 1.7°; Roll 1.5°.
1-30	-	6408'	Continued to wait on weather. Ran mobot. Ran spear and guide line assembly. Located BOP stack and repositioned barge over same. Pulled mobot and waited for seas to subside before stabbing in. Ran mobot and located stack. Repositioned barge and stabbed into stack.
1-31	-	6408'	Pulled mobot. Jumped diver and stabbed Hydril hose to regan latch. Tested with 1500 psi - test good. Regan came loose, and pup joint broke just below the guide line anchors causing the CW latch, spear, jet sub and two other subs and a double pin pup joint to fall to the ocean floor. Ran mobot and inspected BOP stack. Appeared to be OK. Pulled mobot. Pulled drill pipe and guide line frame. Made up camera, sonar and light on drill pipe with a wire line lasso on the bottom and ran same. Light burned out. Pulled, repaired light and re-ran assembly. Located wellhead. Light burned out. Pulled, repaired and ran assembly again.
2-1	-	6408'	Searched ocean floor with sonar, camera and light on drill pipe. Located red joint of marine conductor. Found CW latch, and broke light while fishing for same. Pulled, repaired and re-ran assembly. Attempted to catch fish. Unsuccessful. Pulled drill pipe assembly. Did general rig maintenance.
2-2	-	6408'	Worked on arresting gear counter weight system while waiting on equipment. Rigged up hook, camera and light on drill pipe and ran same to ocean floor. Caught and pulled regan latch.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24"x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8"	5187'
8 3/4"	5212'	6408'		

DRILL PIPE SIZES 5"

R. Iden
SIGNED

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SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 2-10-66

WELL NO. 1ET

TILLAMOOK AREA
(FIELD)

OFFSHORE
(COUNTY)

OCS-P 072
(SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
2-3	-	6408'	Recovered approximately 200' of hydril hoses with regan latch. Changed out hydril hose reels. Hooked up new hose reel and connected control hoses to CW latch.
2-4	-	6408'	Did repiar work on hoist and T-block while waiting for new marine conductor. Rebuilt choke and kill line stab-ins on regan latch. Changed bushings and
2-5	-	6408'	Continued to wait for seas to subside to offload marine conductor. Did general rig maintenance.
2-6	-	6408'	Waited on seas until 08.00 hrs. Commenced offloading marine conductor and replacement fittings. Hooked up regan. Tested control hoses. Ran mobot to BOP stack. Found one hose broken on hydril bottle Pulled mobot. Tested all hoses and connections with 2800 psi. Tests good
2-7	-	6408'	Rigged up and ran marine conductor. Rigged up BOP control sheave and prepared to run choke and kill lines.
2-8	-	6408'	Ran choke and kill lines. Ran marine conductor stabbing string. Ran mobot to locate wellhead. Located same, repositioned barge and stabbed in. Locked regan latch. Bent both choke and kill line stab-ins and offset joints. Pulled and repaired same. Ran kill line and attempted to stab in.
2-9	-	6408'	Could not stab in. Pulled kill line, repaired same and replaced best joints. Did general rig maintenance while waiting on weather. Maximum weather at 15.00 hrs; Wind 30-40; Barometer 29.94; Seas 24-26; Pitch 3°; Roll 3°.
2-10	-	6408'	Continued to wait on weather. Commenced running kill line at 07.00 hrs. Stab-in same and tested at 2000 psi for 15 min. Test good. Ran and pulled choke line twice before getting stab-in. Observed stab-in with mobot.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24"x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8	5187'
8 3/4"	5212'	6408'		

DRILL PIPE SIZES 5"

R. Iden
SIGNED

PD 4A (Rev. 5-63) Printed in U.S.A.

SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 2-11-66

WELL NO. 1ET

TILLAMOOK AREA (FIELD)

OFFSHORE (COUNTY)

OCS-P 072 (SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
2-11	-	6408'	Repaired hose on kill line and tested line with 2000 psi for 10 min. Test good. Ran in hole with retrieving string. Displaced salt water in marine conductor with mud. Tested kill and choke valves. Choke valve would not open. Opened kill line and bled off pressure below pipe rams. Initial pressure was 425 psi. Bled down to 100 psi. Ran mobot and developed leak in hydraulic system. Pulled and repaired same. Tested hydril - found leak in 'close' line. Connected retrieving string and broke circulation with 1000 psi. Pipe rams still closed with pipe hanging to 5159'. Mud returns through kill line. Shut pumps down and had 100 psi back pressure. Continued to circulate through kill line. Opened pipe rams after 4½ hrs. circulating through kill line. Gas cut the mud from 117 to 103#/ft^3. Continued to circulate.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28'	538'	698'	24"x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8"	5187'
8 3/4"	5212'	6408'		

DRILL PIPE SIZES 5"

R. Iden

SIGNED

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SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 2-16-66

WELL NO. 1ET

TILLAMOOK AREA (FIELD)

OFFSHORE (COUNTY)

OCS - P 072 (SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
1966	FROM	TO	
2/12	-	6408'	Circulated, conditioned and raised mud weight to 117 lbs. Shut pump off for 20 min. & circulated bottoms up. Made short trip & circulated. Pulled out of hole. Ran in to 4510' with open-ended drill pipe. Circulated. Set 250' cement plug at 4500'. Pulled out of hole. Made up releasing tool. Ran in hole with 8 3/4" bit & found top of cement at 4150' R.T. Tested with 20,000 lbs. Pulled up to 4015'. Circulated. Slugged pipe. Pulled out to 650'. Displaced mud with sea water. Finished out of hole. Closed blind rams & pressured casing with 1000 lbs. through kill line for 20 min. - OK. Ran in hole with releasing string.
2/13	-	6408'	Disconnected fill up & flowlines. Rigged up & jumped Mobot to check E.L. latch. Pulled Mobot. Backed off at donut & pulled out. Landed counterweight clamp on spider beams. Pulled choke & kill lines. Disconnected counterweight clamp & tilted back A-frames. Pulled marine conductor & secured & dismantled B.O.P.s. Found 3 bent joints of marine conductor - 2, 3, & 4 from bottom.
2/14	-	6408'	Repaired & tested B.O.P. equipment. Deballasted barge to 30' to work on arresting gear.
2/15	-	6408'	Finished repairing blowout equipment. Added new hoses on stack & CW-5 latch. Completed testing. Ballasted barge to 39' draft and did static test. Painted stack & marine conductor. Started running marine conductor. Changed 5th wheel on T-block guide.
2/16	-	6408'	Finished running marine conductor. Installed counterweight clamps. Ran & tested choke & kill lines with 2000 psi. Test good. Ran in & screwed into donut with 3-7 3/4" drill collars. Landed & tested E.L. latch on wellhead. Pulled out of hole with drill collars. Displaced sea water in marine conductor with mud. Ran in hole to top of cement. Circulated & conditioned mud. Cleaned out cement to 4390'.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
28"	538'	698'	24"x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8"	5187'
8 3/4"	5212'	6408'		
DRILL PIPE SIZES 5"				

E. Koerperich

SIGNED

PD 4A (Rev. 5-63) Printed in U.S.A.

SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 2-21-66

TILLAMOOK AREA (FIELD)

OFFSHORE (COUNTY)

WELL NO. 1ET

OCS P 072 (SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
2/17	6408'	6486'	Finished cleaning cement. Circulated bottoms up. Staged to bottom. Conditioned mud. Gas off-scale for 20 minutes. Drilled ahead to 6514'. Circulated. Pulled 5 stands. Hole would not take mud. Ran back to bottom. Circulated. Mud weight cut to 88 lbs. Conditioned mud & hole for loggers. Mud: Wt. 116, Visc. 64, W. L. 4.2, F. C. 2/32
2/18	6486'	6524'	Made 10 stand short trip. Hole would not take enough mud. Circulated for loggers. Made short trip. Circulated. Pulled out of hole. Rigged up & ran Schlumberger logs. Ran IES, BHC, FDC. Ran in hole with bit. Circulated. Drilled ahead at 2300 hrs. Bit #18 made 78' in 7 1/4 hours. Mud: Wt. 117, Visc. 62, W. L. 4.2, F. C. 2/32
2/19	6524'	6790'	Drilled to 6714' & made 5 stand wiper run. Ran to bottom & circulated bottoms up. Ran survey. Tripped for bit #19. Circulated bottoms up. Drilled ahead. Bit #19 made 228' in 11 1/2 hours. Mud: Wt. 115, Visc. 52, W. L. 3.5, F. C. 2/32 Survey: 6714' 0° 45' N 66° E
2/20	6790'	6870'	Continued drilling to 6870'. Circulated for loggers. Made short trip. Hole would not take mud. Circulated & raised mud weight to 116 lbs. Made 10 stand short trip. Circulated & conditioned mud. Pumped slug & ran survey. Pulled 10 stands. Hole would not take mud. Ran to bottom & circulated. Pumped slug. Pulled out of hole. Started running in hole with core barrel. Bit #20 made 156' in 11 3/4 hours. Mud: Wt. 117, Visc. 59, W. L. 3.2, F. C. 1/32 Survey: 6870' 1° N 23° E
2/21	6870'	6909'	Continued running in hole with Hycalog diamond core head and split inner barrel. Circulated bottoms up. Cored for 7 3/4 hours to 6881'. Pumped slug and pulled out of hole. Recovered 5' core. Ran in hole with bit #21 - HTC XV3. Circulated bottoms up. Reamed from 6870' to 6881', drilled ahead to 6909'. Circulated bottoms up, pumped slug, pulled out of hole because of severe weather forecast. Mud: Wt. 117, Visc. 57, W. L. 2.6, F. C. 2/32, pH 11.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24"x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8"	5187'
8 3/4"	5212'	6408'		

DRILL PIPE SIZES 5"

E. Koerperich

SIGNED

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SHELL OIL COMPANY

TILLAMOOK AREA
(FIELD)

OFFSHORE
(COUNTY)

DRILLING REPORT
FOR PERIOD ENDING
2-25-66

WELL NO. 1ET

OCS - P 072
(SECTION OR LEASE)

-
(TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	 TO	REMARKS
2/22	-	6909'	Ran in hole with open-ended drill pipe to 4642'. Set 100 sack cement plug (Class G mixed with sea water and 3% calcium chloride). Pulled 7 stands and circulated. Ran in and tagged cement plug at 4503'. Tested with 1000 psi for 5 minutes. Test good. Pulled 12 stands and added releasing tools to drill string. Set string on Regan. Displaced mud in marine conductor with sea water. Did general rig maintenance while waiting on weather. Maximum weather at 1800 hrs.: wind 40-50, Sea 12-16, Pitch 2°, Roll 2°. Pulled out of hole with releasing string after 15 1/2 hours waiting. Mud: Wt. 117, Visc. 57, W. L. 2.6, F. C. 2/32, pH 11.
2/23	6909'	7000'	Ran in hole with bit #22 - HTC XV3 - to 4475'. Bit #21 made 28' in 1 1/2 hrs. Displaced sea water in marine conductor with mud. Drilled cement plug for 2 hrs. Circulated and conditioned mud. Continued drilling out cement plug to 4695'. Ran in to 4997' and worked pipe through window in casing. Continued running pipe to bottom and conditioned mud. Drilled 15' fill on bottom and continued drilling to 7000'. Mud: Wt. 117, Visc. 57, W. L. 4.6, F. C. 2/32, pH 9.
2/24	7000'	7027'	Circulated at 7000' and ran survey. Tripped for Hycalog diamond core head and split inner barrel. Bit #22 made 91' in 9 1/2 hrs. Cored from 7000-7014' in 3 hrs. Pumped slug and pulled out of hole. Recovered 5' of core. Ran in hole with bit #23 - HTC X7. Worked pipe through window at 4997' and drilled to 7027'. Mud: Wt. 118, Visc. 63, W. L. 4.8, F. C. 2/32, pH 11. Survey: 7000' 1° 15' N 52° E
2/25	7027'	7142'	Drilled to 7064'. Circulated and pumped slug. Tripped for bit #24 - HTC XC. Bit #23 made 50' in 8 1/4 hrs. Drilled ahead to 7142'. Circulated and pumped slug. Commenced tripping for bit #25 - HTC X1G. Bit #24 made 78' in 8 hours. Mud: Wt. 117, Visc. 65, W. L. 4.0, F. C. 2/32, Diesel 4

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	 FROM	 TO	CASING SIZE	DEPTH SET
28"	538	698'	24" x 13 3/8"	638'
15"	698	2040'	11 3/4"	2019'
12 1/4"	2040	5212'	9 5/8"	5187'
8 3/4"	5212	6909'		
DRILL PIPE SIZES 5"				

G. Stosur, R. Iden
SIGNED

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SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 3/1/66

WELL NO. 1ET

TILLAMOOK AREA (FIELD)

OFFSHORE (COUNTY)

OCS - P 072 (SECTION OR LEASE)

- (TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
2/26	7142'	7375'	Finished running into hole. Circulated and drilled to 7290'. Pumped slug and ran survey. Tripped for bit #26 - HTC - X1G. Bit #25 made 148' in 11 1/2 hours. Drilled ahead to 7375'. Mud: Wt. 117, Visc. 64, W. L. 2.8, F. C. 1/32, pH 10, Sd. 3, Diesel 7 Survey: 7290' 1° 15' N 7° E
2/27	7375'	7670'	Continued drilling to 7525'. Circulated, pumped slug and ran survey. Tripped for bit #27 - HTC X1G. Bit #26 made 235' in 15 hrs. Drilled ahead to 7670'. Mud: Wt. 117, Visc. 67, W. L. 2.4, F. C. 1/32, pH 11, Sd. 2, Diesel 10 Survey: 7525' 1° 30' N 20° E
2/28	7670'	7962'	Continued drilling to 7823'. Pumped slug and ran survey. Tripped for bit #29 - HTC X1G. Bit #27 made 298' in 19 hrs. (no bit designated #28). Drilled ahead to 7962'. Mud: Wt. 117, Visc. 65, W. L. 3.2, F. C. 2/32, pH 11, Sd. 8 Survey: 7823' 1° 15' N 10° E
3/1	7962'	8120'	Continued drilling to 8120'. Attempted to pump slug but had 50 psi back pressure on drill pipe. Circulated and ran survey and pumped second slug successfully. Commenced pulling out of hole - pulled 8 stands but hole did not take mud. Pulled survey tool and ran back to bottom (8120'). Circulated and conditioned mud. Hole packed off at 1630 hrs. and lost circulation. Lost approximately 273 bbls. mud. Had 250 psi back pressure on drill pipe. Pumped hydril spear down drill pipe. Pulled 10 stands - could not regain circulation. Pulled up inside casing, regained circulation and conditioned mud. Built up mud volume. Mud: Wt. 118, Visc. 64, W. L. 3.8, F. C. 2/32, pH 10, Diesel 10% Survey: 8120' 1° 30' N 7° W

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24" x 13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8"	5187'
8 3/4"	5212'	7142'		

DRILL PIPE SIZES 5"

G. Stosur, R. Iden

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SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING 3/5/66

WELL NO. 1ET

TILLAMOOK AREA (FIELD)

OFFSHORE (COUNTY)

OCS - P 072 (SECTION OR LEASE)

- (TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
3/2	-	8120'	Continued to circulate inside casing and condition and build mud volume. Tripped for bit #30 - HTC XIG. Bit #29 made 297' in 19 hours. Left hydril spear and sub out of bottom assembly. Circulated and conditioned mud at 4997'. Staged into the hole circulating out gas cut mud at 5882', 5972', 6420', 6865'. Found bridges at 7135', 7380', and 7620' - drilled out same. Circulated and conditioned mud at 7620'. Mud: Wt. 117 1/2, Visc. 45
3/3	8120'	8219'	Ran in hole to 7982'. Circulated out gas cut mud. Singled into hole and hit a bridge at 8045'. Reamed from 8045' to 8120' Circulated and conditioned mud on bottom. Drilled ahead with bit #30 to 8219'. Made 10 stand short trip. Found tight hole from 7801' to 7880'. Circulated on bottom to condition mud and hole prior to running Schlumberger electric logs. Made 15 stand short trip. Circulated and conditioned mud. Made 36 stand short trip (ran into casing). Circulated on bottom to condition mud. Raised mud weight to 118 lbs. Pulled out of hole. Bit #30, 8 3/4" HTC XIG 99'/5 hrs. Mud: Wt. 118, Visc. 58, W. L. 4.2, Cake 2/32, pH 10, Diesel 7%
3/4		8219'	Rigged up Schlumberger. Ran IES, Sonic, Gamma ray. Unrigged Schlumberger due to weather warning. Mixed and spotted 100 sack plug (neat + 3% $CaCl_3$) from 4553'-4300'. Circulated cement out of pipe. Ran in hole with releasing string. Waited on weather.
3/5		8219'	Waited on weather. Pulled out of hole with releasing string. Ran in hole with bit and found top of cement at 4358'. Circulated on top of plug to condition mud. Drilled out plug from 4358' to 4370'. Stopped drilling because of weather warning. Circulated to condition mud to 118 lbs. Pulled above blind rams and tested casing for 5 minutes with 1000 lbs. Ran in and drilled out cement plug from 4370 to 4525'. Total plug 167 feet. Mud: Wt. 118, Visc. 58

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24"x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8"	5187'
8 3/4"	5212'	8120'		

DRILL PIPE SIZES 5"

R. Iden, J. Schneider

SIGNED

WELL NO. 1ET

TILLAMOOK AREA
(FIELD)

OFFSHORE
(COUNTY)

DRILLING REPORT
FOR PERIOD ENDING

3/9/66

OCS P 072
(SECTION OR LEASE)

-
(TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
3/6	-	8219'	Circulated to condition mud. Ran in to 5581'. Circulated out gas cut mud. Ran in hole to 5633'. Circulated out gas cut mud. Ran in and hit bridge at 5856'. Circulated to condition mud. Ran in and hit bridge at 6079'. Circulated to condition mud. Ran in hole to 6791'. Circulated out gas cut mud. Ran in hole to 7415'. Circulated mud. Ran in hole to 7683'. Circulated mud. Ran in hole to 7950'. Circulated mud. Ran in hole to 8128'. Bridged over and tried to stick pipe. Circulated to free pipe. Ran in single and worked to bottom. Circulated to clean hole. Made 20 stand short trip. Circulated to condition hole for logging. Mud: Wt. 118, Visc. 53, W. L. 3.8, F. C. 2/32, pH 11
3/7		8219'	Continued circulating to condition mud. Pulled up 3 stands and found tight hole. Circulated and reamed through tight spot. Made 10 stand short trip. Circulated on bottom. Pulled out of hole. Rigged up for logging. Ran density log and dipmeter. Ran 2 wireline formation tests. Tool failed to seal on both runs. Shot sidewall samples. Mud: Wt. 118, Visc. 55, W. L. 3.8, F.C. 2/32, pH 9.5, salinity 15,460 diesel 6%
3/8		8219'	Continued sidewall sample program. Shot a total of 4 sidewall sample guns. Recovered 47 samples. Shot off 22. Shot three sidewall sample charges for seismic purposes. Unrigged Schlumberger. Ran in hole with 48 stands drill pipe and rigged up to cement due to weather conditions. Standing by to cement. Set 120 sack class G + 3% CaCl plug with open ended drill pipe at 4726'. Pulled six stands. Circulated and flushed drill pipe. Conditioned mud. Pulled six stands. Tested plug with 500 psi. Stood by to release marine conductor.
3/9		8219'	Continued standing by to release marine conductor. Pulled out of hole with releasing string. Tested casing with 900 psi for 5 minutes. Test good. Ran into hole with drilling assembly and drilled up cement plug (4481'-4650'). Circulated and conditioned mud. Mud: Wt. 118.5, Visc. 49, W. L. 3.8, F.C. 2/32, pH 10

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24" x 13 3/8"	638'
15"	698	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8"	5187' with window at 4997'
8 3/4"	4997'	8219'		
DRILL PIPE SIZES	5"			

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SHELL OIL COMPANY

TILLAMOOK AREA
(FIELD)

OFFSHORE
(COUNTY)

DRILLING REPORT
FOR PERIOD ENDING
3-14-66

WELL NO. 1ET

OCS-P 072
(SECTION OR LEASE)

-
(TOWNSHIP OR RANCHO)

DAY 1966	DEPTHS FROM	DEPTHS TO	REMARKS
3/10	-	8219'	Pulled out of hole. Ran in and set a HOWCO bridge plug at 4950'. Tested plug and casing with 800 psi. Test good. Rigged up and cemented with 100 sacks neat cement from 4950' to 4700'. Tested plug with 1000 psi. Test good. Pulled out of hole and layed down pipe. Ran in hole with casing cutting tools. Cut 9 5/8" casing at 1500'. Pulled out of hole with cutter. Ran in hole with open-ended drill pipe to 1450' and spotted a 75 sack cement plug. Attempted to squeeze 50 sacks of cement with pipe rams closed. No success. Pulled out of hole. Ran in hole with Servco Mill and cut 9 5/8" casing, 38' below ocean floor.
3/11	-	8219'	Attempted to pull BOP assembly with 375,000 lb. pull. No success. Tripped to service mill blades. Continued to cut 9 5/8" casing. Pulled on casing. Tripped for 9 5/8" casing spear. Retrieved 1 joint of 9 5/8" casing with hanger. Made up 13 3/8" swab cup and ran in hole. Attempted to pressure up without success.
3/12	-	8219'	Disconnected flowlines, closed 3 1/2" and 5" pipe rams, and hydril. Disconnected E.L. latch and pulled 10' of marine conductor. Pipe hung up. Worked loose. Latched on to lower bonnet and spotted a 30 bbl. oil pill around the test plug. Circulated with sea water and pulled pipe free. Pulled out of hole, leaving swab cup. Ran in hole with open-ended drill pipe and found swab cup at 531'. Drove cup down to 565' and pulled out of hole. Ran in hole with casing cutter and cut 13 3/8" and 24" casing. Marine conductor parted at top ring of flex joint. Attempted to pull cutter. No success. Jumped Mobot to inspect marine conductor. Pulled Mobot.
3/13	-	8219'	Pulled out of hole. Pulled choke and kill lines. Pulled marine conductor. Ran in hole with 13 3/8" casing spear and stabbed stinger with the help of the Mobot. Spear would not latch. Tripped to repair spear.
3/14	-	8219'	Pulled BOP equipment loose at 01.00 hrs. Pulled Mobot. Waited on weather for 1 3/4 hours. Searched ocean floor for 134' of 16" marine conductor which had fallen on the ocean floor on January 31, 1966. Could not locate pipe. Pulled and recovered BOP stack, pile assembly, and 24" subconductor stub.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
28"	538'	698'	24"x13 3/8"	638'
15"	698'	2040'	11 3/4"	2019'
12 1/4"	2040'	5212'	9 5/8"	5187
8 3/4"	5212'	8219'		(window at 4997')

DRILL PIPE SIZES 5"

Final Report 3-14-66.

R. Iden
SIGNED