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WESTERN GEO-ENGINEERS

REGISTERED GEOLOGISTS

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(2)

DEPT OF GEOLOGY
& MINES

History of Oil or Gas Well

Operator NORTHWEST EXPLORATION COMPANY Field or County Coos County
Well Coos County #1 Sec. 14, T. 27S., R. 13W., W. B. & M.
A.P.I. No. Name Title Agent
Date , 19 GEORGE L. CONVERSE
(Person submitting report) (President, Secretary or Agent)

Signature

(Address)

(Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	Description
7/29/80	J&N Drilling Co. Rig #1 move on location, Prior to move on location 40' of 16" conductor was set on ground level & location was rocked for wet conditions.
7/30/80	Finish move on, start rig up @ 800hrs.
7/31/80	Rig up.
8/1/80 (1)	Finish rig up & build mud to 1800hrs/gel&water, Prior to spud WEGE logging unit moved on and rigged up, Start drilling @ 1800hrs, Drill to 128'. Pump#1 56spm, 3/12k WOB, 300 pp, 100 RPM.
8/2/80 (2)	Drill to 342'. Pump#1 54SPM, 6/10k WOB, 800 PP, 100 RPM.
8/3/80 (3)	Drill to 400' @ 400hrs, P.O.H. clean bit, R.I.H. @ 500hrs, Drill to 488' survey (0°30'), Drill to 554'. Pump #1 54SPM, 10k WOB, 800 PP 120 RPM
8/4/80 (4)	Drill to 576', P.O.H. change bit RR#2, R.I.H. @ 400hrs, Drill to 675' survey (1°00'), Circ P.O.H. @ 1700hrs, Rig up cassers & ran 22 JTS of 9 5/8"-36# K55 @1800hrs, Rig up B.J. Cemented w/215 sx class G 65x35 POZ, 6%gel, 2%CaCl, 1/4# Flocele-tailed w 100 sx class G, 6%gel, 2% CaCl, Plug down @ 2145hrs.
8/5/80 (5)	W.O.C., Tear out cementing head, load out B.J., Tearout floor clean cellar, Cut off conductor and casing @ 200hrs, Weld well head finish nipple up @ 1400hrs, test blind rams 1000psi, Kelly, Kelly cock-S-Pipe @ 1600hrs, R.I.H. Tag cement 640', Testing with State Geologist Pipe rams, Choke, to 1000psi-OK @ 1800hrs, Drill out shoe & Drill to 741' Pump#1 54SPM,25k WOB, 1000 PP, 70/100 RPM.
8/6/80 (6)80	Drill to 815' survey (0°30'), Drill to 911' survey (2°00), Drill to 960', @ 1350hrs Level derrick to 1600hrs, Drill to 1005' survey (1°00') Drill to 1066', Pump #1 54SPM, 10/12k WOB, 1000PP, 100/110 SPM.
8/7/80 (7)	Drill to 1109' survey (1°30'), P.O.H. chng bits NB#4 Smith DTJ, R.I.H. to shoe ream F/673' @ 1600hrs, Drill to 1237' survey (1°30'), Drill to 1297' survey (2°00'), Drill to 1390' survey (3°00'), Drill to 1407'. Pump #1 54SPM, 8/10k WOB, 1000PP, 100/110RPM.

Date	
8/8/80 (8)	Drill to 1443', P.O.H. chng bits NB#5 HTC OSC 1GJ chng drill assembly @ 900hrs, R.I.H. ream F/690' to 750', R.I.H. spot ream to 1443', Drill to 1498' survey (2°00'), Drill to 1592' survey (2°00'), Drill to 1656' Pump #1 54SPM, 20/25k WOB, 1000PP, 100 SPM.
8/9/80 (9)	Drill to 1717' circ & cond mud for DST#1, w/o tester @ 130hrs, P.O.H. @ 1200hrs, Break off bit pickup tester tools make up same @ 1400hrs, R.I.H. w/tester to 1687' 30' fill, P.O.H. chain out measure out, Make up bit check BOP R.I.H. to shoe @ 2130hrs, Slip Drlg line R.I.H. to 1657' Ream to 1717'.
8/10/80 (10)	Circ & Cond Raise mud 9.8 to 9.9, P.O.H. break bit @ 400hrs, chng out tester charts & make up test tools @ 630hrs, R.I.H./tester, @ 900hrs try to set Packers wouldn't set chain out chk B.O.E. @ 1000hrs, Break down tester, Make up 8 3/4" NB#6 Smith DGS @ 1300hrs, R.I.H. clean out 1690'-1717', Circ & Ream packing off, Drill to 1778' survey (1°30') Drill to 1873', Pump #1 54SPM, 20k WOB, 1000PP, 100 RPM.
8/11/80 (11)	Circ 1873' survey (1°15'), Drill to 1968' survey (1°00'), Drill to 2126' survey (1°30'), Drill to 2206 @ 1630hrs, P.O.H. tight hole 2016'-1834' circ & cond at 1584' @ 1845hrs, P.O.H. NB#7 Smith DGJ, R.I.H. Ream F/1690'.
8/12/80 (12)	Reaming, P.O.H. chk BOE chng bit @ 200hrs, Stand back 7" D.C. Pick up 5 5/8" D.C., Make up bit R.I.H. @ 400hrs, Ream F/1690', Circ F/wiperrun @ 1430hrs, Pull tight pipe 2107' to 2016', Wipe 12 stds, P.O.H. lay down 5 1/2" D.C. Pickup 7" D.C., R.I.H. ream F/1987' to 2058'.
8/13/80 (13)	Ream F/2058' to 2206', Wipe hole 10 stds tight hole 2191' to 1858' @ 200hrs Drill F/2206' circ & cond mud to 10.3#, Drill ahead to 2308 survey (1°15') wipe hole, Drill to 2405' wipe hole, Drill to 2468' survey (1°45') wipe hole, Pump #1 52 SPM, 20k WOB, 1100 PP, 100 RPM.
8/14/80 (14)	Wipe hole 12 stds survey @ 2459' (1°45'), Drill to 2499', P.O.H. NB#8 Smith F2 @ 900hrs, R.I.H. to shoe slip drlg line @ 1030hrs, R.I.H. Ream 2470' to 2499' @ 1130hrs, Drill to 2598' Survey (1°45'). Drill to 2693' wipe hole, Pump #1 50 SPM, 26k WOB, 80 RPM, 1200 PP.
8/15/80 (15)	Wipe hole 14 stds tight hole 2284' to 2250', Drill to 2716' survey (1°15') Drill to 2768' wipe hole @ 800hrs, Drill to 2880' survey (2°30') wipe hole, Drill to 2906', Pump #1 48 SPM, 10/25k WOB, 80 RPM, 1200PP.
8/16/80 (16)	Work on Pumps @ 100hrs, Drill to 2942' wipe hole, Drill to 2973' survey (2°15') increase WOB, Drill to 3042', Pump #2 52 SPM, 10k WOB, 80 RPM 1200 PP.
8/17/80 (17)	Drill to 3098' survey (2°30') wipe hole, Drill to 3164' wipe hole 13stds Drill to 3198' survey (3°30') wipe hole, Drill to 3214', Pump #1 52 SPM 10/12/18k-10/12k WOB, 90/80 RPM, 1200 PP.

Date	
8/18/80 (18)	Drill to 3255' P.O.H. NB#9 HTC OSC-1GJ @ 800hrs, @ 1200hrs work on light plant, 1600 hrs work on draw works, Pump#1 50 SPM, 10k WOB 80 RPM, 1200 PP.
8/19/80 (19)	Work on Draw Works, compound clutch.
8/20/80 (20)	Work on Clutch shaft, keep hole full, clean and repair Rig, @ 1600hrs replace clutch shaft, @ 2200hrs make bit RIH to 1766'.
8/21/80 (21)	RIH to 3200', Ream 3200'-3255', Drill to <u>3275'</u> , survey (3°45'), Drill to <u>3378'</u> survey (3°30'), Drill to 3448', Pump#1 52 SPM, 10/15k WOB, 110/100 RPM, 1200 PP.
8/22/80 (22)	Drill to 3520' service Rig P.O.H. tight hole @ 800hrs, R.I.H. @ 1100hrs Ream F/2695' @ 1400hrs, Ream to 3410' circulate + condition mud /co wt 10.6 @1830hrs, Ream to 3520' @2230hrs, Drill to 3530', Pump #2 50 SPM, 10/15/20k WOB, 100 RPM, 1200 PP.
8/23/80 (23)	Drill to <u>3565'</u> survey (3°30'), Wipe hole @ 400hrs, Drill out fill 25' @500hrs circulate 30 min, Drill to 3653' wipe hole 20 stds /3-8 stds drag, 12' fill circulate <u>survey at 3653'</u> (3°45'), Drill to 3726', Pump #2 50 SPM, 20k WOB, 85/95 RPM, 1100 PP.
8/24/80 (24)	Drill to 3756', Lost #4 Engine on draw works wait on mechanic @ 100hrs Circulate until @ 400hrs work on draw work Engines, P.O.H. @ 1500hrs, Chk BOE R.I.H. @ 2000hrs, Ream F/3510'to3566', Pump#2 50 SPM, 20k WOB 80/100 RPM, 1100PP.
8/25/80 (25)	Ream to 3756' @ 400hrs, Drill to <u>3819'</u> circulate + survey (3°00'), Wipe hole 10k to 40k drag first 3 stds, Ream 3728'to3758' R.I.H. @ 330hrs, Drill to <u>4068'</u> survey (3°30') @ 900hrs, Drill to 4140' circulate F/wiper trip, Wipe hole @ 1800hrs, Work stuck pipe from 1900to2100hrs, Ream @ 2130hrs, Pump#2 50SPM, 18/20k WOB, 90 RPM, 1100 PP.
8/26/80 (26)	Drill to <u>3979'</u> Circ and survey (3°00'), Wipe hole 10kto40k drag first 3 stds, Ream 3728' to 3758' R.I.H. @ 330hrs, Drill to <u>4069'</u> survey (3°30') @ 900hrs, Drill to 4140' circulate F/wiper trip, Wipe hole @ 1800hrs, Work stuck pipe from 1900hrs to 2100hrs, Ream @ 2130hrs, Pump #2 50SPM, 18/20k WOB, 90 RPM, 1100 PP.
8/27/80 (27)	Ream 3600' to 3690' pack off pull 1 stand circ wipe hole @ 400hrs, Circ for log @ 530hrs, P.O.H. (slow) Rig up Schlumberger @ 900hrs, Log until @ 530hrs, Rig down Schlumberger, R.I.H. Ream F/3660' sluffing shale, Ream circulate and work pipe to 3724' @ 2300hrs.
8/28/80 (28)	Ream circ work peip from 3724'-3852' @ 500hrs, Repair air line @ 530hrs Ream to 4140' circ and increase mud wt to 11.0lbs @ 1300hrs, Wipe hole 15 stds (pull over 40k), Ream from 3780'to4060' pack off pull to 3710' swab hole @ 1400hrs, Circ and Ream to 3755' Circ clean hole P.O.H. (slow) Pump#2 50SPM, 2/10k WOB, 90 RPM, 1100PP.

Date	
8/29/80 (29)	P.O.H. until @ 100hrs work on generator, P.O.H. until 700hrs, R.I.H. to 3716' ream F/3716'to4165' and condition hole, Pump#1 52SPM, 2/10k WOB, 90 RPM, 1200 PP.
8/30/80 (30)	Drill to 4220' survey no good, P.O.H. NB#13 Smith DGJ, chk BOE Run to sho slip Drlg line 20' + cut 75' @1130hrs, Repair rig R.I.H. to 3708' @ 1330hrs, Ream F/3708' to 3799', R.I.H. Circulate clean bit @ 1930hrs, Drill to 4292', Pump #1 52SPM, 15/20k WOB, 100 RPM, 1200 PP.
8/31/80 (31)	Drill to 4347' circulate for wipe hole, Survey no good wireline broke, Drill to 4371' circulate F/short trip 10-50k lbs drag @ 900hrs, Ream F/4238' to 4328', Drill F/4371'to 4390' survey (4°15'), Drill to 4502', Pump #1 50SPM, 20/15k WOB, 100 RPM, 1200 PP.
8/1/80 (32)	DRILL TO 4560, INCREASE IN PIT VOLUME, WR CUT FROM 11.5-11.3, VIS CUT FROM 49-42, COND MUD WT TO 11.5, SURVEY @ 4550', (4°), TRIP BIT, 80,000DRAG, PACKED OFF @ 4050', ON RIH, REAM FROM 4050'-4560', DRIL TO 4607. PUMP #1, 50 SPM, 100 RPM, 15/20K WOB, 1200 PP.
9/2/80 (33)	DRILL TO 4739, WIPE HOLE 50,000DRAG, LOSS MUD OVER SHAKER, BLD BOL. PUMP #1, 50 SPM, 100 RPM, 15K WOB, 1200 PP.
9/3/80 (34)	DRL TO 4803', SURVEY, NO TAKE, WIPE HOLE, 50,000DRAG, REAM FROM 4114'-4813', DRL TO 4875. PUMP #1, 50 SPM, 100 RPM, 15K WOB, 1200 PP.
9/4/80 (35)	DRL TO 4912', P.O.H. NB#15, R.I.H. TO SHOE, WORK ON LIGHT PLANT. PUMP #1, 50 SPM, 100 RPM, 15K WOB, 1200 PP.
9/5/80 (36)	REAM FROM 4800'-4912', DRL TO 4962', SURVEY (3°15'), DRIG TO 4803', WIPE HOEE, 600,000DRAG, REAM FROM 4645'-4803'. PUMP #1, 50 SPM, 100 RPM, 15K WOB, 1200 PP.
9/6/80 (37)	DRL TO 5180', SURVEY (3°00'), DRL TO 5190', TRIP BIT, REAM FROM 4690'-4880'. PUMP #1, 50 SPM, 80 RPM, 15K WOB, 1200 PP.
9/7/80 (38)	REAM FROM 4880'-5190', DRL TO 5314'. PUMP #1, 50 SPM, 80 RPM, 15/20K WOB, 1200 PP.
9/8/80 (39)	DRL TO 5319', SURVEY-NO TAKE, TRIP BIT, CK B.O.P. DRL TO 5438'. PUMP #1, 50 SPM, 80 RPM, 15/20K WOB, 1200 PP.
9/9/80 (40)	DRL TO 5460', SURVEY - NO TAKE, DRL TO 5495', WIPE HOLE, DRL TO 5644'. PUMP #1, 50 SPM, 100 RPM, 15/20K WOB, 1200 PP
9/10/80 (41)	GADM 30BBLs IN PIT, CIRC & COND MUD TO 11.5, DRL TO 5690', TRIP BIT, CK B.O.P., DRL TO 5719', SURVEY (2°15'), DRL TO 5780'. PUMP #1, 50 SPM, 100 RPM, 15/20K WOB, 1200 PP.
9/11/80 (42)	DRL TO 5962', REPAIR SHAKER. PUMP #1, 50 BPM, 100 RPM, 15/20K WOB, 1200 PP.

Date	
9/12/80 (43)	DRL TO 6009', WIPE HOEE, DRL TO 6071', WORK ON PUMPS, DRL TO 6120', WORK ON PUMPS. PUMP #1&2, 50 SPM, 100 RPM, 15/20K WOB, 1200 PP.
9/13/80 (44)	WORK ON PUMPS, DRL TO 6128', LIGHT PLANT DOWN, WAIT ON ELECTRICIAN, WORK ON LIGHT PLANT, DRL TO 6184', DROP SURVEY (1°00'), WORK ON DRAW WORKS TRIP BIT. PUMP #1, 50 SPM, 100 RPM, 15/20K WOB, 1200 PP.
9/14/80 (45)	LAY DOWN 7" DC, R.I.H. TO SHOE, SLIP DRLG LINE, R.I.H., TO 6160', REAM FROM 6160' TO 6184', CIRC BIT CLEAN, DRL TO 6332'. PUMP #1, 50 SPM, 100 RPM, 15/20K WOB, 1400 PP.
9/15/80 DRL (46)	DRL TO 6493', WIPE HOEE, WORK ON PUMPS, PUMP #1&2, 50 SPM, 100 RPM, 15/20K WOB, 1200 PP.
9/16/80 (47)	DRL TO 6682'. PUMP #1, 50 SPM, 100 RPM, 15/20K WOB, 1200 PP.
9/17/80 (48)	DRL TO 6688', SURVEY (1°00'), TRIP BIT, CK B.O.P., BREAK OUT GEOLOGRAPH, CIRC BIT CLEAN, DRL TO 6728'. PUMP #1, 50 SPM, 100 RPM, 15/20K WOB, 1200 PP.
9/18/80 (49)	DRL TO 6786', WIPE HOEE, NO DRAG, DRL TO 6801'. PUMP #1, 50 SPM, 80 RPM, 15/20K WOB, 1200 PP.
9/19/80 (50)	DRL TO 6821'. TD. CIRC HOLE CLEAN FOR LOGS, HOOK UP SCHLUMBERGER WELL DOGGING UNIT. COMMENCE LOGGING @ 1400HRS.
9/20/80 (51)	COMPLETE LOGGING, CIRC HOLE CLEAN WAIT ON CEMENT, RELEASE WEGE LOGGING UNIT @ 0930HRS. COMMENCING TO SET PRODUCTION PIPE.

TESTING

