

Daily Well History - Interim

Instructions: This form is used to record the daily activities of a well during its drilling or workover. It should be filled out by the driller or workover crew. The form should be completed daily and submitted to the District Drilling Engineer. The form should be filled out for each day of drilling or workover in progress. The form should be filled out for each day of drilling or workover in progress. The form should be filled out for each day of drilling or workover in progress.

District: WESTERN	County or Parish: MORROW COUNTY	State: OR
Field: WILDCAT	Lease or Unit: HANNA	Well no: 1

Date and depth as of 3:00 a.m.	Complete record for each day while drilling or workover in progress		
- 32 5-06-88	HANNA #1 (Morrow County, OR) TD: N/A MUD: N/A	Parker #92	AFE #R46834 (24" @ 60')
	RU derrick and pinned same to sub. String drill line. Set mud pits, water tanks, tool shed, boiler, generator and fuel tanks. Layed water lines. Raised derrick. Installed communications. Welded 21-1/4" flange on conductor. Set in solids control, cementing, and air drilling equipment. Filled water tank w/ water (+ 4 bpm from water well).		
- 33 5-07-88	HANNA #1 (Morrow County, OR) TD: N/A MUD: 8.5 ppg VIS: 32	Parker #92	AFE #R46834 (24" @ 60')
	Continue rig up. Notified Dan Wermiel of DOGMI of anticipated spud 6/7/88.		
- 34 6-08-88	HANNA #1 (Morrow County, OR) TD: 87' (1') - Drilling MUD: 8.5 ppg VIS: 37	Parker #92	AFE #R46834 (24" @ 60')
	Fin NU lines to gas buster. Installed slides f/shakers. Installed flow nip f/rot hd. RIH w/20-1/2" bit & circ. Repaired leaks and wear plates in #2 pump. Circ & tstd lines. Accepted rig 24:00 hrs. 6-06-88. Spud well at 6:00 hrs 6/8/88. PU BHA & 20-1/2" bit. Start drlg @ 86'.		
1 6-09-88	HANNA #1 (Morrow County, OR) TD: 208' (121') - Drilling MW: 8.5 ppg VIS: 37	Parker #92	AFE #R46834 (24" @ 60')
	Drill 20-1/2" hole from 87' to 208'.		
2 6-10-88	HANNA #1 (Morrow County, OR) TD: 316' (108') - Drilling MW: 8.5 ppg VIS: 42	Parker #92	AFE #R46834 (24" @ 60')
	Drill 20-1/2" hole f/ 208'-232'. CBU. Drop survey (1/2° @ 228') and POOH. PU shock sub and TIH. Drill 20-1/2" hole f/ 232'-316'.		
5 6-13-88	HANNA #1 (Morrow County, OR) TD: 765' (449') - Drilling MW: 8.6 ppg VIS: 40	Parker #92	AFE #R46834 (24" @ 60')
	Drill 20-1/2" hole f/ 316'-403'. CBU. Survey @ 385' (3/4°). Drill 20-1/2" hole f/ 403'-531'. Pump Hi-Vis sweep, drop survey (no good) and POOH. PU new S3JS bit, reamer and shock sub. TIH to 531'. Drill 20-1/2" hole f/ 531'-765'.		

The above is correct

Signature <i>[Signature]</i>	Date 11/1-788	Title DISTRICT DRILLING ENGINEER
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For form preparation and distribution see Procedures Manual Section 10. Drilling. Pages 86 and 87

Daily Well History - Interim

Instructions: This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem logs sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "Interim" sheets until final completion. Report official or representative test on "Final" form. 1. Submit "Interim" sheets when filled out but not less frequently than every 30 days, or 2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

District WESTERN	County or Parish MORROW COUNTY	State OR
Field WILDCAT	Lease or Unit HANNA	Well no. 1

Date and depth as of 8:00 a.m.	Complete record for each day while drilling or workover in progress
<p>-14 5-09-88</p> <p>-15 5-10-88</p> <p>-16 5-11-88</p> <p>-17 5-12-88</p> <p>-18 5-13-88</p> <p>-21 5-16-88</p> <p>-22 5-17-88</p> <p>-23 5-18-88</p>	<p>HANNA #1 (Morrow County, OR)</p> <p>Finished hauling crushed rock and leveling location/access road. Total rock - 2520 cu. yd. Drilled and shot cellar. RU rathole diggers. Drilled 30" hole to 15' and 18" hole to 17'.</p> <p>HANNA #1 (Morrow County, OR)</p> <p>Drill 18" conductor hole to 31'. Opened 18" hole to 30" to 25'.</p> <p>HANNA #1 (Morrow County, OR)</p> <p>Drilled 18" hole 31'-49'.</p> <p>HANNA #1 (Morrow County, OR)</p> <p>Drilled 18" hole 49'-60'.</p> <p>HANNA #1 (Morrow County, OR)</p> <p>Opened conductor hole to 36" 16'-38'. Prepare site for gravel pit.</p> <p>HANNA #1 (Morrow County, OR)</p> <p>Opened conductor hole to 36" 38'-60'. Ran 2 jt of 24" 94.6# conductor pipe. Drilled mousehole and rathole. Hauled 1000 cu. yd. pit run and spread on access road.</p> <p>HANNA #1 (Morrow County, OR)</p> <p>Cemented conductor w/11-1/2 yd ready mix. Poured cap on cellar floor. CIP 0945 hr 5/16/88. Drilled 6-1/4" seismic hole approximately 1000' north of drill site to 102'. Ran 100' of 5" O.D. (4-1/2" I.D.) PVC pipe. MIRU rock crusher. Graded road to prepare for crushed rock.</p> <p>HANNA #1 (Morrow County, OR)</p> <p>Set 50 hp submersible pump in water well @ 723'.</p>

The above is correct		
Signature <i>J. D. Watts</i>	Date <i>5/18/88</i>	Title DISTRICT DRILLING ENGINEER

For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 66 and 67

Number all daily well history forms consecutively as they are prepared for each well	Page no
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Daily Well History - Interim

Instructions: This form is used to record the activities of a well during the drilling process. It is to be filled out daily by the driller or his representative. The form is to be filled out for each day of drilling, including days when drilling is suspended. The form is to be filled out for each day of drilling, including days when drilling is suspended. The form is to be filled out for each day of drilling, including days when drilling is suspended.

State WESTERN	County or Parish MORROW COUNTY	State OR
Field WILDCAT	Lease or Unit HANNA	Page No. 1

Date and depth to or 5:00 a.m. Complete record for each day while drilling or working in progress.

-24
5-19-88 **HANNA #1 (Morrow County, OR)**

RU rock crusher. Surveyed conductor, water well, seismic hole.
Final coordinates from the NE Corner, S23/T2S/R27E

Conductor: 1755.3' S and 1413.7' W
GLE 3199.5'

Water well: 1579.8' S and 1279.2' W

Seismic: 954.4' S and 1474.3' W
803.2' N 4° 19' 49" W of conductor
GLE 3235.1'

-25
5-20-88 **HANNA #1 (Morrow County, OR)**

Crushed pit rock.

-26
5-23-88 **HANNA #1 (Morrow County, OR)**

Finished crushing rock and spreading on access road.
Totals: pit run - 1263 cu. yd.
crushed rock - 2500 cu. yd.

-27
6-01-88 **HANNA #1 (Morrow County, OR)** Parker #92 AFE #R46834
TD: N/A
MUD: N/A (24" @ 60')

MIRU Parker #92. Total of 11 loads to location.

-28
6-02-88 **HANNA #1 (Morrow County, OR)** Parker #92 AFE #R46834
TD: N/A
MUD: N/A (24" @ 60')

MIRU Parker #92. Spot rig mats around conductor. RU crane.

-29
6-03-88 **HANNA #1 (Morrow County, OR)** Parker #92 AFE #R46834
TD: N/A
MUD: N/A (24" @ 60')

RU substructure. Set in drawworks, motors, pumps, rig floor. Began RU derrick. Spotted trailers. Began to lay out water systems.

The above is correct

Signature <i>[Signature]</i>	Date 4/11/88	Title DISTRICT DRILLING ENGINEER
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For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 86 and 87

Daily Well History - Interim

Instructions: This form is used to record the drilling operations, including the testing, logging or perforating, show formation logs, and other operations. Numbered and dated forms should be prepared by the District Drilling Engineer or his representative. The forms should be prepared in triplicate. Final copies of the forms should be prepared by the District Drilling Engineer or his representative. The original copy of the forms should be retained by the District Drilling Engineer or his representative. The original copy of the forms should be retained by the District Drilling Engineer or his representative. The original copy of the forms should be retained by the District Drilling Engineer or his representative.

District WESTERN	County or Parish MORROW COUNTY	State OR
Field WILDCAT	Lease or Unit HANNA	Wells 1

Date and Depth as of 5:30 a.m.	Complete record for each day while drilling or workover in progress
6 6-14-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 765' (91') - Drilling MW: 8.6 ppg VIS: 42 (24" @ 60')</p> <p>Drill 20-1/2" hole f/ 765'-847'. Lost 400 psi pump press. CK surface equipment and POOH. Shock sub leaking at spline. Change out reamer, shock sub and rubber on NRS. TIH. Drill 20-1/2" hole f/ 847'-856'.</p>
7 6-15-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 1004' (148') - Drilling MW: 8.6+ ppg VIS: 37 (24" @ 60')</p> <p>Drill 20-1/2" hole f/ 856'-874'. CBU. Survey @ 832' (2°). Drill 20-1/2" hole f/ 874'-968'. CBU. Survey @ 926' (1-3/4°). Drill 20-1/2" hole f/ 968'-1004'.</p>
8 6-16-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 1118' (104') - Drilling MW: 8.6 ppg VIS: 38 (24" @ 60')</p> <p>Drill 20-1/2" hole f/ 1,004'-1,118'.</p>
9 6-17-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 1195' (77') - Drilling MW: 8.6 ppg VIS: 39 (24" @ 60')</p> <p>Drill 20-1/2" hole f/ 1,118'-1,136'. CBU. Drop survey (2° @ 1,104') and POOH. PU new 20-1/2" S3JS bit and reamer. TIH. Drill 20-1/2" hole f/ 1,136'-1,195'.</p>
12 6-20-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 1401' (206') - Drilling MW: 8.6 ppg VIS: 40 (24" @ 60')</p> <p>Drill 20-1/2" hole f/ 1,195' to 1,328'. Repair comp. tail shaft on Pump #1 (20-1/2 hrs downtime). Drill 20-1/2" hole f/ 1,328' to 1,401'.</p>
13 6-21-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 1563' (162') - Drilling MW: 8.6 ppg VIS: 38 (24" @ 60')</p> <p>Drill 20-1/2" hole f/ 1,401' to 1,563'.</p>
14 6-22-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 1600' (37') - Running 16" casing MW: 8.6 ppg VIS: 40 (24" @ 60')</p> <p>Drilling 20-1/2" hole f/ 1563'-1600'. CBU. Wipe hole to collars. TIH to TD. Pump HI-Vis sweep. Circulate for logs. POOH. RU SWS. Ran DIL/SP/GR/ f/ 1600'-60'. RD SWS. Lay down 12" DC's. RU casing tongs. Ran 16" 75# K-55 BTC casing.</p>

The above is correct

Signature <i>[Signature]</i>	Date <i>1/15/89</i>	Title DISTRICT DRILLING ENGINEER
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For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 86 and 87

Daily Well History - Interim

Instructions: This form is used during drilling and workover operations. It is used for logging or tabulating all formations which are penetrated. Work performed during the drilling and workover operations. After completion of the work performed by Production Division and its operations. Interim history and log completion. Report all log or production data on "Final" form. Submit "Interim" sheets when logs are not complete immediately. Monthly history and log completion. Reporting of all work in which logging is not required. Submit workover logs when logging is not required.

District WESTERN	County or Parish MORROW COUNTY	State OR
Field WILDCAT	Lease or Unit HANNA	Well no. 1

Date and depth as of 8:00 a.m. Complete record for each day while drilling or workover in progress

15 6-23-88	HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 1600' (0')- ND Stack MW: 8.6 ppg VIS: 40 (24" @ 60') Ran 40 jts of 16" 75# K-55 BTC surface casing. TIH w/ stab-in tool on DP. RU Howco. Break circulation, stab-in to shoe and pump 90 bbls of H ₂ O spacer, followed by a lead 925 sx of Class "G", 8% gel, 1% CaCl ₂ and 13.2 ppg (1.89 yield), then a tail of 400 sx Class "G", .75% CFR-3 @ 15.8 ppg (1.15 yield). Displace w/ mud w/ full returns throughout job - 106 bbls of good cement returns to surface. Final displacement @ 550 psi, float held, CIP @ 20:10 hrs. WOC 8 hours. Make rough cut on 16" and nipple down stack.
16 6-24-88	HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 1,600' (0')- Test BOPE MW: 8.7 ppg VIS: 37 (16" @ 1598') ND BOPE. Weld on SOW and test to 800 psi. NU BOPE. Test stack to 1,500 psi, annular to 1,000 psi (DOGMI witness).
19 6-27-88	HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 1760' (160')- POOH MW: 8.6 ppg VIS: 40 (16" @ 1598') Fin tstg BOP. RIH & tstd csg to 1000 psi. Unable to rot pipe. Made trip w/ 11-3/8" magnet and no indication of junk. LD stab. Drld shoe + 10' form. Tstd to 425 psi (13.6 ppg EMW). Drld to 1760'. POOH for stabs.
20 6-28-88	HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 1927' (167')- POOH MW: 8.6 ppg VIS: 35 (16" @ 1598') PU stab. RIH. C&C mud. Drld and surv to 1927'.
21 6-29-88	HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 2180' (253')- Drlg MW: 8.7 ppg VIS: 37 (16" @ 1598') Drld and surv to 2180'.
22 6-30-88	HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 2350' (170')- Drlg MW: 8.6 ppg VIS: 35 (16" @ 1598') Drld to 2261'. RT f/ bit. Drld to 2350'.

The above is correct		
Signature <i>R. L. Jett</i>	Date 1/12/88	Title DISTRICT DRILLING ENGINEER

For form preparation and distribution see Procedures Manual Section 10. Drilling, Pages 66 and 67.

Daily Well History - Interim

Instructions: This form is used during drilling or workover operations. It is used to record all operations performed, show time and depth in descending order. Number all operations in descending order. Assign a description of the work. Work performed by Fracturing Section will be indicated as "Interim". A well log may be completed. Report all operations in descending order. "Final" operations are indicated by "Final". Interim operations which are not completed are indicated by "Interim". On Wednesday, the system which is being used to submit work for reviewers and following ending of the workover operations.

District	County or Parish	State
WESTERN	MORROW COUNTY	OR
Field	Lease or U.A.:	Well no.
WILDCAT	HANNA	1

Date and depth to 8:30 a.m.	Complete record for each day with drilling or workover in progress
23 7-01-88	HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 2593' (243')- Drlg MW: 8.6 ppg VIS: 35 (16" @ 1598') Drlg and surv to 2593'.
27 7-05-88	HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 2980' (387')- Drlg MW: 8.6 ppg VIS: 37 (16" @ 1598') Drill 14-3/4" hole f/ 2593'-2710'. Twisted off. TOH. Box broken off top of 2nd 8-3/4" DC. MU overshot w/ 7-3/4" grapel. TIH. Engage fish. Jars tripped and lost fish on bottom. TOH w/o fish. Re-dress overshot w/ 7-7/8" grapel and TIH. Engage fish. POOH w/ fish. Lay down 8-3/4" DC. Test BOPE to 1500 psi high and 250 psi low. TIH and inspect BHA. Lay down 6 jts of HWDP and 1-10" DC. TIH. Ream 34' to bottom. Drill 14-3/4" hole f/ 2710'-2980'.
28 7-06-88	HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 3098' (118')- Drlg MW: 8.6 ppg VIS: 34 (16" @ 1598') Drill 14-3/4" hole f/ 2980'-3029'. CBU. Drop survey and POOH. PU new bit. TIH ream 44' to bottom (no fill). Drill 14-3/4" hole f/ 3029'-3098'.
29 7-07-88	HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 3382' (284')- Drlg MW: 8.6 ppg VIS: 42 (16" @ 1598') Drill 14-3/4" hole f/ 3098'-3382'.
30 7-08-88	HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 3570' (188')- Drlg MW: 8.6 ppg VIS: 50 (16" @ 1598') Drill 14-3/4" hole f/ 3382'-3384'. CBU. Wipe hole to shoe. TIH. Ream 110' to bottom (5' fill). Drill f/ 3384'-3556'. CBU. Wiper trip to shoe. TIH. Wash 75' to bottom (6' fill). Drill f/ 3556'-3570'.

The above is correct

Signature	Date	Title
<i>J. S. Watts</i>	11/12/88	DISTRICT DRILLING ENGINEER

For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 86 and 87

Daily Well History - Interim

Instructions: This form is used during drilling or workover operations. It is to be completed when there is a change in status or operations work performed. Number of well shut-in days, if any, shall be indicated. This work performed by Drilling Section is supervised by INTERIM. Working on this form in an attempt to prevent an operator error. Final report is Summary Interim reports which filed out of the office by the end of the day, or if on Wednesday, they are in which of string is set. Submit weekly for workover and full log setting of all string and completion.

District WESTERN	County or Parish MORROW COUNTY	State OR
Field WILDCAT	Lease or Unit HANNA	Well no. 1

Date and depth as of 8:00 a.m.	Complete record for each day while drilling or workover in progress
33 7-11-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 4054' (484')- Wiper trip MW: 8.6 ppg VIS: 49 (16" @ 1598') Drill 14-3/4" hole f/ 3570'-3654'. CBU. Drop survey. POOH f/ BHA. Test BOPE 1500 psi high and 250 psi low. TIH. Ream 3564'-3654'. Drill f/ 3654'-3766'. CBU. Wipe hole t/ casing shoe. TIH (16' fill). Drill f/ 3766'-3899'. Pump hi-vis sweep. CBU. Wipe hole to shoe. TIH (10' fill). Drill f/ 3899'-4054'. Pump hi-vis sweep. CBU. Wipe hole to shoe.</p>
34 7-12-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 4250' (196')- Drlg MW: 8.7 ppg VIS: 49 (16" @ 1598') Wipe hole to shoe. TIH (12' fill). Drill 14-3/4" hole f/ 4054'-4178'. Pump hi-vis sweep. Wipe hole to 2730'. TIH (4' fill). Drill f/ 4178'-4250'.</p>
35 7-13-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 4402' (152')- Drill MW: 8.7 ppg VIS: 50 (16" @ 1598') Drill 14-3/4" hole f/4250'-4356'. Pump hi-vis pill. Wipe hole to shoe. TIH (42' fill). Drill 4356'-4402'.</p>
36 7-14-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 4476' (74')- Drill MW: 8.7 ppg VIS: 48 (16" @ 1598') Drilling f/4402'-4407' (5'). Pump hi vis pill & circ. hole clean. Drop survey and POOH. Pick up new bit & TIH insp. BHA. TIH wash 34' to btm (6' fill). Drlg f/4407'-4476'.</p>
37 7-15-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 4729' (253')- CBU for short trip MW: 8.7 ppg VIS: 50 (16" @ 1598') Drill 14-3/4" hole f/4476'-4546'. Pump hi-vis sweep. CBU. Wipe hole t/2915'. TIH (no fill). Drill f/4546'-4729'. CBU.</p>

The above is correct		
Signature <i>J. D. Jett</i>	Date 11/27/88	Title DISTRICT DRILLING ENGINEER

For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 86 and 87

Daily Well History - Interim

Instructions: This form is used during the regular working operations of a well, or during or following the work performed. Number all entries on basis and unit. Attach record sheets to this form. Work performed by Producing Branch will be recorded on "Interim" sheets until final completion. Record all well or surface data on test on "Final" form. Submit "Interim" sheets after filling out but not less frequently than every 24 hrs. or 2, or Wednesday of the week in which string is set. Submit weekly for operators and following setting of string after completion.

District WESTERN	County or Parish MORROW COUNTY	State OR
Field WILDCAT	Lease or Unit HANNA	Well No. 1

Date and depth as of 8:00 a.m.	Complete record for each day while drilling or work-over in progress
40 7-18-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 5049' (320')- CBU f/wiper trip MW: 8.7 ppg VIS: 48 (16" @ 1598') CBU. Wipe hole t/shoe. TIH (5' fill). Drill 14-3/4" hole f/ 4729' t/4852'. Pump hi-vis sweep. 20 std wiper trip. TIH (no fill). Drill 4852'-4958'. Pump hi-vis sweep. CBU. POOH f/new bit. Test BOPE. TIH (5' fill). Drill 4958'-5049'.</p>
41 7-19-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 5254' (205')- CBU f/wiper trip MW: 8.7 ppg VIS: 48 (16" @ 1598') CBU. 20 std wiper trip. TIH (no fill). Drill 14-3/4" hole f/ 5049'-5254'. Pump hi-vis sweep.</p>
42 7-20-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 5400' (746')- Drilling MW: 8.7 ppg VIS: 49 (16" @ 1598')</p> <p>CBU. 24 std wiper trip t/2870'. TIH (2' fill). Drill 14-3/4" hole f/ 5254'-5320'. Wash & ream tight spots @ 5311' t/5320'. Drill f/5320' t/5400'.</p>
43 7-21-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 5486' (86')- Drilling MW: 8.7 ppg VIS: 50 (16" @ 1598')</p> <p>Drill 14-3/4" hole f/ 5400'-5439'. Pump hi-vis sweep. POOH 26 stds for wiper trip t/2970'. TIH (no fill). Drill 5439'-5462'. CBU. Drop survey (2-1/4°). POOH f/ new bit. TIH (3' fill). Drill 5462'-5486'.</p>
44 7-22-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 5713' (227') - Drilling MW: 8.7 ppg VIS: 49 (16" @ 1598')</p> <p>Drill 14-3/4" hole f/ 5486'-5713'. Total drilling hrs 707.5 or 67%.</p>

The above is correct		
Signature <i>R. L. Watts</i>	Date <i>11/15/88</i>	Title DISTRICT DRILLING ENGINEER

For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 86 and 87


Daily Well History - Interim

Instructions: This form is used during drilling or workover operations. If logging, cementing, or perforating, show formation name in logging work performed. Number 5 and 8 1/2 stem tests required. Attach description of work. Work performed by Producing Section will be recorded on "Interim" sheets and the completed Record of Well or Representative Test on "Final" form. Submit "Interim" sheets when filled but not less frequently than every 30 days or 2 or Wednesday of the week in which drilling is set. Submit weekly for workover and in logging string only. String on completion.

District: WESTERN	County or Parish: MORROW COUNTY	State: OR
Field: WILDCAT	Lease or Unit: HANNA	Well No: 1

Date and depth as of 8:00 a.m.	Complete record for each day while drilling or workover in progress
47 7-25-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 6253' (540') - Drilling MW: 8.7 ppg VIS: 42 (16" @ 1598')</p> <p>Drill 14-3/4" hole f/ 5713'-5716'. 29 std wiper trip. (No fill). Drill 5716' - 5992'. Hi-vis sweep. Survey @ 5979 (2-1/4°). 31 std wiper trip (4' fill). Drill 5992' - 6253'.</p>
48 7-26-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 6302' (49') - Drilling MW: 8.7 ppg VIS: 42 (16" @ 1598')</p> <p>Drill 14-3/4" hole f/ 6253'-6264'. Pump hi-vis sweep. Drop survey (1-3/4°). POOH. Inspect BHA. LD 1-10" DC. Test BOPE t/1500 psi. TIM (8' fill). Drill f/6264'-6302'.</p>
49 7-27-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 6371' (69') - Drilling MW: 8.7 ppg VIS: 41 (16" @ 1598')</p> <p>Drill 14-3/4" hole f/ 6302'-6368'. Rig down waiting on clutch for #2 pump (13-1/2 hrs). Drill f/6368'-6371'.</p>
50 7-28-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 6580' (209') - Drilling MW: 8.7 ppg VIS: 41 (16" @ 1598')</p> <p>Drill 14-3/4" hole f/ 6371'-6534'. Wiper trip (no fill). Drill 6534'-6562'. Lost 50% returns & 50 bbls mud. Mixed 2 80 bbl LCM sweeps. Drill w/full returns 6562'-6580'.</p>
51 7-29-88	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 6767' (187') - Drilling MW: 8.7 ppg VIS: 40 (16" @ 1598')</p> <p>Drilled 14-3/4" hole f/ 6580'-6603'. Lost circ (80 bbls). Mixed 2-80 bbl LCM pills. Drill 6603'-6767' w/full returns.</p>

The above is correct

Signature 	Date 4/1/88	Title DISTRICT DRILLING ENGINEER
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For form preparation and distribution see Procedures Manual Section 10. Drilling, Pages 86 and 87

Daily Well History - Interim

Instructions: This form is to be filled out daily or whenever operations are being conducted. Show formation names, casing, work performed, number of pumps, etc. in the appropriate spaces. Work performed by the Logging Section is to be reported on "Interim" spaces. For full completion, Report on the appropriate history "Final" form. Submit "Interim" reports when filed but not as frequently, preferably 50 days or 20 or Wednesday, or the date in which the string is set. Submit weekly for workover and to follow setting of a string on a completion.

District WESTERN	County or Parish MORROW COUNTY	State OR
Field WILD CAT	Lease or Unit HANNA	Well No. 1

Date and depth as of 8:00 a.m.

Complete record for each day while drilling or workover in progress.

54
8-1-88
HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834
TD: 7144' (377') - Wash & ream tight hole
MW: 8.7 VIS: 55 (16" @ 1598')

Survey @ 6724' (1-1/4"). Drill 14-3/4" hole f/6767'-7144'. POOH f/BHA. PU new bit, shock sub and jars. TIH. Hit bridge @ 3290'. Wash and ream f/3260'-3624'. Short bridge @ 3380-3624'. Lost 120 bbls mud while reaming.

55
8-2-88
HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834
TD: 7217' (71') - Drilling
MW: 8.7 VIS: 51 (16" @ 1598')

Reamed f/3710'-3829'. TIH. W & R f/7027' to 7144'. Drld f/7144'-7176'. Short trip. 160' fill. Drld 7178' to PD.

56
8-3-88
HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834
TD: 7330' (113') - Drilling
MW: 8.9 VIS: 50 (16" @ 1598')

Drld f/7217' to PD w/conditioning trip @ 7240'. 90' of fill.

57
8-4-88
HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834
TD: 7331' (1') - Wash to btm
MW: 9.4 VIS: 48 (16" @ 1598')

Drld 7330' to PD. C&C hole. POOH f/logs. Hole tight. TIH. 80' fill. C&C hole. Raise MW to 9.4 ppg. Short trip to 3000'. 40' fill. Wash fill to btm.

58
8-5-88
HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834
TD: 7331' (0') - C & C Hole
MW: 9.4 VIS: 48 (16" @ 1598')

Wash fill to btm. Jets plugged. Drop bar to open float. POOH wet SLM. RU Schlumberger. Ran DIL/SP/GR/BHC & FDC/CNL/GR/CAL f/7244' to 1598'. RD WL. TIH. 90' fill. C & C hole.

The above is correct:

Signature <i>R. D. Vatta</i>	Date <i>11/15/88</i>	Title DISTRICT DRILLING ENGINEER
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For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 86 and 87

Daily Well History - Interim

Instructions: This form is used for recording the drilling or workover history of a well. It is to be filled out by the driller or workover crew. The information should be recorded on a daily basis. The form is to be filled out for each day of drilling or workover in progress. The form is to be filled out for each day of drilling or workover in progress. The form is to be filled out for each day of drilling or workover in progress.

District: WESTERN	County or Parish: MORROW COUNTY	State: OR
File #: WILDCAT	Lease or Unit: HANNA	Well no: 1

Date and depth as of 6:00 a.m. Complete record for each day while drilling or workover in progress

61
8-8-88 **HANNA #1** (Morrow County, OR) Parker #92 AFE #R46834
 TD: 7331' (0') - NU BOPE
 MW: 8.9 VIS: 48 (13-3/8" @ 7285')

C&C hole. TOOH. RU Schlumberger. Ran SHDT f/7250' to 1598'. RD WL. TIH. String 10 lines on blocks. W&R 90' to btm. C&C f/csg. TOOH. RU & ran 187 jts 13-3/8" 72# N-80 BTC csg w/FS @ 7285' & FC @ 7206'. C&C mud. M&P 1352 sx Class "G" + 8% gel + 0.5% CFR-3 + 0.5% HR7 @ 12.6 ppg followed by 325 sx "G" + 0.75% CFR-3 + 0.15% HR-7 @ 15.8 ppg. Lost returns @ 750 bbls into displacement. Total displacement 1076 bbls. Did not bump plug. Floats held ok. CIP @ 1233 hrs 8/7/88. ND BOP. Set slips. Cut off 13-3/8". Install csg head. NU BOPE.

62
8-9-88 **HANNA #1** (Morrow County, OR) Parker #92 AFE #R46834
 TD: 7331' (0') - PU 8" DC's
 MW: 8.7 VIS: 35 (13-3/8" @ 7285')

Test BOPE to 5,000 psi (Hydril to 3,000 psi) - witnessed by DOGMI. LD 10" DC's. PU 8" DC's.

63
8-10-88 **HANNA #1** (Morrow County, OR) Parker #92 AFE #R46834
 TD: 7340' (15') - Drlg 12-1/4" hole
 MW: 8.8 VIS: 48 (13-3/8" @ 7285')

PU 8" DC's. TIH & tagged TOC @ 6924'. CC mud. Press test csg to 1,500 psi - ok. Drill hard cement to 7260'. Press test csg to 1500' psi - ok. Drill cement 7260'-7285'. Drill shoe @ 7285'. Wash & ream 7285'-7325'. Drill 12-1/4" hole f/ 7325'.

64
8-11-88 **HANNA #1** (Morrow County, OR) Parker #92 AFE #R46834
 TD: 7494' (154') - TIH w/ new BHA
 MW: 8.7 VIS: 46 (13-3/8" @ 7285')

PIT @ 7340', 9.9. ppg. Drill 12-1/4" hole f/ 7340'-7494'. Survey - broke off survey tool. POOH and retrieve survey tool. Change bit and PU 3-stabs. TIH.

65
8-12-88 **HANNA #1** (Morrow County, OR) Parker #92 AFE #R46834
 TD: 7725' (231') - Drlg
 MW: 8.7 VIS: 43 (13-3/8" @ 7285')

TIH. Ream f/ 7316'-7494'. Drill 12-1/4" hole 7494'-7725'.

The above is correct

Signature <i>F. D. Jett</i>	Date <i>11/7/88</i>	Title DISTRICT DRILLING ENGINEER
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For form preparation and distribution see Procedures Manual Section 10. Drilling. Pages 86 and 87

Daily Well History - Interim

Instructions: This form is used during drilling or workover operations. It is to be completed at the end of each day's work performed. The form is to be filled out at the end of each day's work performed. Attach description of work performed by Production Section A. 1. Do not record completed shifts until the completion of the well or the completion of the well. Submit Interim reports when the well is out of production frequently, but only 30 days after the completion of the well or when the well is shut in. Submit workover reports when the well is out of production frequently, but only 30 days after the completion of the well or when the well is shut in. Submit workover reports when the well is out of production frequently, but only 30 days after the completion of the well or when the well is shut in.

District WESTERN	County or Parish MORROW COUNTY	State OR
Field WILDCAT	Lease or Unit HANNA	Well no. 1
Date and time as of 8:00 a.m.		
Complete record for each day while drilling or workover in progress		

68
8-15-88
HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834
TD: 7900' (175') - Drlg
MW: 8.6 VIS: 43 (13-3/8" @ 7285')

Drill 12-1/4" hole f/ 7725'-7753'. Lost all returns @ 7748'. POOH 5 std to shoe. Mix 80 bbls LCM pill. TIH. Pump pill. No returns. POOH to shoe. Mix 80 bbl LCM pill. TIH. Pump pill. No returns. POOH to shoe. Mix 80 bbl LCM pill. TIH. Pump pill. Got 75% returns. POOH to shoe. Wait on pill. TIH. CC @ 75% returns (510 bbls lost). Drill 7753'-7763' w/ 75% returns. POOH. TIH w/ OEDP. Mix & pump 200 sx Cl G w/ 0.75% CFR-2 @ 16.4 ppg. POOH. WOC. Fill hole w/ 75% returns. TIH w/ OEDP. CC @ 7748'. Mix & pump 300 sx Cl G w/ 0.75% CFR-2 @ 16.4 ppg. POOH. WOC. Total of 735 bbls lost. TIH w/ bit & BHA. CC @ 7250' w/ full returns. TIH and tag TOC @ 7382'. Drill cement f/ 7382'-7763'. Drill new hole f/ 7763'-7900'.

69
8-16-88
HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834
TD: 8085' (185') - Drlg
MW: 8.7 VIS: 42

Drill 12-1/4" hole f/ 7900'-8085'.

70
8-17-88
HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834
TD: 8218' (127') - TOH f/ bit
MW: 8.6 VIS: 42

Drill 12-1/4" hole f/ 8085' - 8167'. CC & survey @ 8117' (2-1/4°). Drill f/ 8167' - 8212'. DBU. POOH.

71
8-18-88
HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834
TD: 8925' (80') - Drlg
MW: 8.7 VIS: 43

TIH for bit. Test BOPE. TIH. Drill 12-1/4" hole f/ 8212'-8295'.

72
8-19-88
HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834
TD: 8530' (235') - Drlg
MW: 8.7 VIS: 42

Drill 12-1/4" hole f/ 8295' - 8530'.

75
8-22-88
HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834
TD: 9085' (555') - Drlg
MW: 8.7 VIS: 43

Drill 12-1/4" hole f/ 8530'-8855'. Lost 200 psi pump press. CK surface equipment. POOH. Could not find W0. PU new jars & SS. TIH. Drill f/ 8855'-9085'.

The above is correct

Signature <i>D. Datto</i>	Date <i>1/12/88</i>	Title DISTRICT DRILLING ENGINEER
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For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 86 and 87

Daily Well History - Interim



Instructions: This form is used during drilling or workover operations. If testing, coring, or completion show formation or time in producing work performed. Number all well steps in sequence. Attach description of all cores. Work performed by producing formation is reported on "Interim" sheets and final completion. Report on final or representative test on "Final" form. Submit "Interim" sheets when filled out but not less frequently than every 30 days, or (2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and for drilling setting of oil string with completion.

District: WESTERN	County or Parish: MORROW COUNTY	State: OR
Field: WILDCAT	Lease or Unit: HANNA	Well no.: 1

Date and depth as of 8:00 a.m.	Complete record for each day while drilling or workover in progress
<p>76 8-23-88</p> <p>77 8-24-88</p> <p>78 8-25-88</p> <p>79 8-26-88</p> <p>82 8-29-88</p>	<p>HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 9154' (69') - TIH w/ Bit #17 MW: 8.7 VIS: 40</p> <p>Drill 12-1/4" hole f/ 9085'-9154'. POOH and inspect BHA. PU Bit #17. HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 9210' (56') - WO Schlumberger MW: 8.7 VIS: 42 (13-3/8" @ 7285')</p> <p>TIH. Drill 12-1/4" hole f/ 9154'-9210'. CC mud f/ loggers. HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 9210' (0') - TIH MW: 8.7 VIS: 41 (13-3/8" @ 7285')</p> <p>C&C mud. POOH. RU SWS. Ran DIL/BHC/SP/GR and FDC/CNL/GR/CAL f/ 9210'-7285'. TIH w/ BHA and LD same. TIH w/ OEDP. HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 9210' (0') - Injecting Mud MW: 8.7 VIS: 42 (13-3/8" @ 7285')</p> <p>TIH w/ OEDP. C&C mud. Inject mud @ 7285' @ 5 BPM 450 psi. HANNA #1 (Morrow County, OR) Parker #92 AFE #R46834 TD: 0' Rig released @ 2400 hrs 8/28/88 MW: N/A VIS: N/A (13-3/8" @ 7285')</p> <p>Inject mud @ 5 BPM and 450 psi (final pressure 130 psi). Opened well. Flowed well. Flowed ± 500 bbls mud back to sump. RU Howco. Mix & pump 204 sx G cement. POOH 10 stds. WOC. TIH and tag TOC @ 7270' (DOGMI witness). Mixed and pumped 105 sx G cement on top of plug. POOH. LD 135 49 jts of DP. PU 13-3/8" csg cutter. TIH. Cut 13-3/8" @ 3082'. POOH and LD 49 jts of DP. ND BOPE. PU 13-3/8" spear. Pulled up 275K. Pipe pulled free. RU csg tongs and LD machine. LD 79 jts 13-3/8" 72# N-80 GB buttress special clearance (13.875") csg. TIH to 1670'. Mix and pump 250 sx G cement f/ 1670'-1400'. POOH. LD 49 jts DP. Mixed and pumped 150 sx G cement f/ 152'-8' below ground level. Cut off 24" conductor and 16" surface pipe 8' below ground level. Clean pits and <u>release rig</u>. Drop from report.</p>

The above is correct

Signature <i>D. D. Jatta</i>	Date <i>11/12/88</i>	Title DISTRICT DRILLING ENGINEER
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For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 86 and 87

Number all daily well history forms consecutively as they are prepared for each well.	Page no.
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