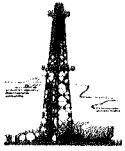


RECEIVED MAR 17 1992

H. J. JENSEN OPERATING CO., INC.

OILWELL CONSULTANT
DRILLING COMPLETION WORKOVER



317 NO. WILLIS
PERMIAN BUILDING
SUITE 10
ABILENE, TEXAS 79609

Computer Inventoried

no legal



OFFICE 915/672-2320
HOME 915/672-6338
MOBILE 915/675-9249

REEF EXPLORATION INC.
FLORENCE MOORE #1
CLARK COUNTY, KANSAS

OPERATION: COMPLETION

March 5, 1992

Patrick Well Service move in and rig up. I drove to lease North Sitka; check out 2 - 250 bbl. oil tanks and 6 X 15 heater-treater built in 1981. Good tanks; check on price tomorrow.

March 6, 1992

Welder cut off 5-1/2 install "B" Section of Series 900 Gulfco wellhead. Halliburton run Bond and Corr. Log. Tag plug @ 6617'; top cement good bond @ 5535.0'. Pick up 211 jts. 2-7/8 C.S. Hy-drill tubing. Displace water out hole w/pipe line oil w/kill truck. In hole to circ.

1 jt. 8-R	32.50
210 jts. 2-7/8 C. S.	6588.30
Crossover sub	2.00
2-7/8 pony sub	6.00
Total string	6628.80

March 7, 1992

Pull out hole to perf. zone. Halliburton run 4" hollow steel carrier csg. gun w/22.7 gram charges, 25 PF, total 12 holes. Perf. 6604-6610'. Halliburton spot acid @ 6612', 500 gals. 15% NEFE. Pull up 1 jt., set packer. Pump 6 bbls. before press. increase rate to 4 BPM, press. 1000#. Slow rate back to 1 BPM. Keep increase rate on rest flush to 3 BPM, pressure 750#. Flush w/35 bbls. formation water w/5 gals. Lo-Surf. Tubing on vacuum. Rig up, start swabbing. Recover 35 bbls. load frac oil. Fluid level holding @ 4600' surface. First hour in tank, total fluid 15 bbls.; est. 12 bbls. oil, 6 bbls. treatment water. Fluid level drop down to 6000' surface. In hole treatment:

1 jt. 2-7/8 8-R tbg.	32.50
Guiberson UN-V packer	6.95
2-7/8 8-R seat nipple	1.10
CS Hy-drill to 8R crossover	2.00
209 jts. Hy-drill tbg.	6557.35
End anchor	6599.90

Wait 30 min. fluid level @ 5600' surface. Recover 4 bbls. fluid, 80% oil, 20% spent acid. Swabbing @ 7 BPH last hour. Fluid entry @ 1000' each 30 min. Left well open to frac tank overnight.

REEF EXPLORATION INC.
FLORENCE MOORE #1
CLARK COUNTY, KANSAS
COMPLETION - Page 2

March 8, 1992

Well flowed 24 bbls. oil in frac tank overnight. First hour on swab recover 7 bbls. fluid level 3000' from surface. Swab down to 4800' from surface, recover @ 7 BPH, 100% free oil in test tank.

March 9, 1992

Fluid level @ 1800' from surface. Flow 4 bbls. in test tank overnight. Swab for 7 hrs., recover 57 bbls. free oil w/only trace water. Av. 8.14 BPH. Fluid level holding @ 4800' from surface. Fair blow gas after each run. Farrar Pump & Supply delivered 7/8 and 3/4 rods and unload on location w/pump and anchor.

March 10, 1992

Fluid level 1800' from surface. Bleed pressure off csg., release packer, pull out hole to lay D. packer. Go back w/production string. Run pump and rods as listed:

2-1/2 X 1-1/4 Metal plunger stroke thru pump	16.00
12 - 7/8 new rods	275.00
1 - 7/8 pony rod	2.00
160 - 3/4 used rods	4000.00
90 - 7/8 new rods	2250.00
1 - 7/8 pony rod	4.00
1-1/4 polish rod w/10' liner	22.00
Total Rod String	<u>6569.00</u>

String in hole for pump:

1 jt. 2-7/8, 8-R tbg. & plug	32.50
2-7/8 perf. nipple	3.20
2-7/8 seat nipple	1.10
CS Hy-drill to 8R crossover	2.00
210 jts. 2-7/8 Hy-drill tub.	<u>6588.30</u>
	<u>6627.10</u>
Set from KB	3.00
End mud anchor	<u>6630.10</u>

S.N. @ 6564.40.

March 11, 1992

Hook up wellhead, tie to frac tank. String and lay 2-3/8 tubing for flow line. Grade and build tank battery pad. Top off w/12 yds. pea gravel. Dump 12 yds. crushed rock to set pump jack block on.

March 12, 1992

Move in 2 - 250 bbl. oil tanks, 1 - 200 bbl. fiberglass water tank and 6 X 15 heater-treater. Set and level; start hook up lines. Clean out oil tank bottoms.

REEF EXPLORATION INC.
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March 13, 1992

Dansco sent 228 oil well jack from Abilene; unload and rig up and level. Tie in to generator; jack on line @ 4:45 P.M. Rest of day rig up tank battery, oil going in frac tank.

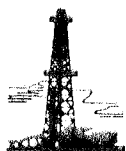
March 14, 1992

Finished hook up tank battery. Turn oil down line to heater. Check for leaks. Light heater and set back pressure valve. Drain water off frac tank, ready to move oil to battery and release tank. Well made 93 bbls. oil in 16 hrs. last night.

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HUGHES OPERATING CO., L.P.C.

OILWELL CONSULTANT
DRILLING COMPLETION WORKOVER



317 NO. WILLIS
PERMIAN BUILDING
SUITE 10
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HOME 915/672-6338
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REEF EXPLORATION INC.
MOORE #1
CLARK COUNTY, KANSAS

OPERATION: DRILLING

K C C

SEP 1 1994

January 27, 1992

Depth: 40', 24 hr. footage: 40'. Drilling and set 40' of conductor csg. 20" and cement w/rat hole rig. Drilling rig move in set out on location but didn't have time to rig up.

January 28, 1992

Depth: 663', 24 hr. footage: 623'. Penetration rate: 60' per hr. Red bed and Shale formation. Deviation: 1° @ 164', 3/4° @ 663'. Mud: vis 38, wt 9.1, pH 9.5. DC 14 - 6-1/2; wt on bit 12-15,000#. RPM 140, SPM 60, press. 450#. Bit #1 Hughes 12-1/4, Serial #R-tip, jets 3-14, in hole @ 40'. Hrs. on bit 5-1/4, 623'. Set rig in and rig up. Spud on 12-1/4 surface hole @ 2:15 P.M. New OCTF 8-5/8 API J-55 csg., tested 2700#, drifted 7.972. Halliburton cement w/175 sks. Hal-Lite. Wt 12.4, rate 6 BPM, yield 2.06. Tailed in 150 sks. Class "C"; wt. 14.8, rate 6 BPM, yield 1.32 w/1/4 Flo-Seal per sk and 2% CCL. Plug down @ 4:45 A.M. on 1-29-92.

8-5/8, 24# J-55/5 jts.	648.80
KB to GL	5.00
Below GL	4.00
Csg. set from KB	657.80

January 29, 1992

Depth: 1551', 24 hr. footage: 928'. Penetration rate: 50' per hr. Shale w/stks. sd. formation. Deviation: 3/4° @ 1156'. Mud: vis water, wt 8.8. DC 14-6-1/2 wt 42,000#. Wt on bit: 30,000#. RPM 76, SPM 60, press. 750# w/6' liners. Bit #1 Reed H-p52, 7-7/8, Serial # Y-71589, jets 3-14, in hole @ 663'. Hrs. on bit 14-1/4, 928'. WOC. Break loose in 4 hrs., nipple up BOP. Test to 500#. Start drlg. on plug @ 1:00 P.M. Under surface @ 1:45 P.M. 1-29-92 w/7-7/8 hole.

January 30, 1992

Depth: 2852', 24 hr. footage: 1031'. Penetration rate: 30' per hr. Shale w/stk. Lm. formation. Deviation: 1° @ 1558', 1Δ @ 2087', 1-1/4° @ 2582'. Mud: water, wt 9.6. DC 14-6-1/2, 42,000#. Wt on bit: 30,000#. RPM 74, SPM 62, press. 800#. Bit #1 Reed Hp52, 7-7/8, Serial #Y-71589, jets 3-14, in hole @ 663'. Hrs. on bit 34-1/4. WOC. Clarke haul 3 yds. pea gravel to go around surface casing.

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Wichita

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MOORE #1
CLARK COUNTY, KANSAS
Drilling - Page 2

January 31, 1992

Depth: 3144', 24 hr. footage: 562'. Penetration rate: 25' per hr. Shale w/stk. Lm. formation. Deviation: 1° @ 3074'. Mud: vis: native, wt 9.4. DC 14-6-1/4, 35,000#. Wt on bit: 38,000#. RPM 74, SPM 62, press. 850#. Bit #1 in hole @ 663', hrs. on bit 47-3/4, 2481'. Drilling ahead @ 3144'.

February 1, 1992

Depth: 3771', 24 hr. footage: 627'. Penetration rate: 35' per hr. Shale w/stk sd formation. Deviation: 1/4° @ 3567'. Mud: vis: native, wt 9.2. DC 14-6-1/4, 38,000#. Wt on bit: 35,000#. RPM 70, SPM 62, press. 850#. Bit #1 in hole @ 663', hrs. on bit 76, 3108'.

February 2, 1992

Depth: 4410', 24 hr. footage: 639'. Penetration rate: 25' per hr. Shale w/stk Lm & Sd formation. Deviation: 3/4° @ 4068'. Mud: vis 36, wt 9.0, pH 9.5, WL 12.0, ck 2/32. DC 14-6-1/4, 38,000#. Wt on bit: 35,000#. RPM 80, SPM 60, press. 800#. Bit #1 in hole @ 663', hrs. on bit 97-1/2. Displace hole w/mud @ 3975'. Pump all chlorides over in reserve pit.

February 3, 1992

Depth: 4860', 24 hr. footage: 450'. Penetration rate: 12' per hr. Shale w/stk Lm formation. Deviation: 3/4° @ 4535'. Mud: vis 34, wt 9.3, pH 9.0, WL 14.0, ck 2/32. DC 14-6-1/2, 38,000#. Wt on bit: 38,000#. RPM 72, SPM 60, press. 825#. Bit #1 in hole @ 663', hrs. on bit 119-3/4, 4197'.

February 4, 1992

Depth: 5220', 24 hr. footage: 360'. Penetration rate: 15' per hr. Lime and Shale formation. Deviation: 1° @ 5061'. Mud: vis 48, wt 9.3, pH 9.5, WL 22.0, ck 2/32. Wt on bit 38,000#. RPM 72, SPM 58, press. 1000#. Bit #1 in hole @ 663', hrs. on bit 141-3/4, 4557'. Top slope @ 4855'; 46' high to Thomas #1.

February 5, 1992

Depth: 5552', 24 hr. footage: 332'. Penetration rate: 15' per hr. Lime and Shale stks (Miss.) formation. Deviation: 3/4° @ 5560'. Mud: vis 40, wt 9.2, pH 9.5, WL 20.0, ck 2/32. Wt on bit: 38,000#. RPM 74, SPM 60, press. 850#. Bit #1 in hole @ 663', hrs. on bit 164-1/4, 4889'. Est. top (Miss. Lm.) @ 5358'. Sub-"C" -3262'. Thomas #1 -3242'. Moore 20' low.

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Wichita, Kansas

REEF EXPLORATION INC
MOORE #1
CLARK COUNTY, KANSAS
Drilling - Page 3

February 6, 1992

Depth: 5868', 24 hr. footage: 316'. Penetration rate: 10-12' per hr. Miss. Lm formation. Deviation: $3/4^{\circ}$ @ 5568'. Mud: vis 41, wt 9.2, pH 9.5, WL 15.1, ck 2/32. DC 14-6-1/2, 38,000#. Wt on bit: 38,000#. RPM 74, SPM 60, press. 850#. Bit #1 in hole @ 663', hrs. on bit 185-1/2, 5205'. At 6:15 A.M. on 2-7-92 lost pump pressure and wt. pull out hole for fishing job @ 5868'.

February 7, 1992

Depth: 5868', 24 hr. footage: zero'. Miss Lm formation. Mud: vis 42, wt 9.2, pH 9.5, WL 15.1, ck 2/32. DC 14-6-1/2 in hole (fish). Twist off @ 5868', leave 14 DC & 1.45' bottom jt. DP in hole. 1st run w/220 Bowen overshot w/6-1/4 Graffles and bumper sub and jars. 2nd run overshot w/6-1/8 Graffles no luck. 3rd run overshot w/6" Graffles no luck. Tool going over fish and pack off fubber. Pressure up; DC are plugged. Graffles too large. Pulling out hole to change graffles for run #4 w/overshot.

February 8, 1992

Depth: 5868', 24 hr. footage: zero'. Fishing. Mud: vis 46, wt 9.2, pH 9.5, WL 13.8, ck 2/32. DC 9-6-1/4 in hole. Bit #1 in hole @ 663', hrs. on bit 185-1/2, 5205'. Run #4 w/overshot. 5-1/2 graffles catch tool joint. Jar and pull on fish. No luck; DC stuck tight. Run #5 run 6-1/4 graffles catch DC pull and jar for 4 hrs. DC will not move. Dia-Log run free point. Top 6 DC free. Shoot off @ 5587'. Pull 5 DC out hole; lay down. Start pick up wash pipe @ 8:00 A.M. on 2-9-92 to wash over 9 more DC.

February 9, 1992

Depth: 5868', 24 hr. footage: zero'. Wash over DC. Wash over down to 5790'. 6 DC clear, top fish @ 5587'. Wash pipe on hard band on DC #3 in hole. Will not go over. Also pack off, on friction press. Out hole to pick up new wash over shoe.

February 10, 1992

Depth: 5868', 24 hr. footage: zero'. Wash over DC. Mud: vis 60, wt 9.2, pH 9.5, WL 17.6, ck 2/32. DC 6-6-1/4 in hole. Go back in hole w/jars and bumper sub and DP. Screw in to fish @ 5587'. Run free point. Check for free DC. Shoot off and recover 3 DC. Pull out hole and lay down. Go back in hole w/wash pipe. Down to 5793'. Top fish 5683'. 6 DC left in hole.

February 11, 1992

Depth: 5868', 24 hr. footage: zero'. Wash over 6 DC. Mud: vis 42, wt 9.2, pH 9.5, WL 16.2, ck 2/32. DC 6-6-1/4 in hole. Wt on shoe: 10,000#. RPM 60, SPM 25, press. 650#. Wash over 6 DC last 24 hrs. Depth w/wash pipe 5828', rate @ 15-25 MPF, top fish @ 5587'.

REEF EXPLORATION INC.
MOORE #1
CLARK COUNTY, KANSAS
Drilling - Page 4

February 12, 1992

Depth: 5956', 24 hr. footage: 88'. Penetration rate: 18-20' per hr. Miss. Lm formation. Mud: vis 41, wt 9.1, pH 9.5, WL 12.0, ck 2/32. DC 18-5-3/4, 40,000#. Wt on bit: 38,000#. RPM 75, SPM 60, press. 825#. Bit #2, Reed HP 53, 7-7/8, Serial #V-84404, jets 3-14, in hole @ 5868'. Hrs. on bit 5, 88'. Wash over DC to 5831'. Pull out hole; go back w/bumper sub and jars. Screw into 6 DC left in hole. Jar loose, pull all, fish out hole. All tool lay down and hole clean @ 10:00 P.M. 2-12-92. Pick up 18 smaller DC. Go back in hole. Ream 40' OB, drilling @ 2:00 A.M. 2-13-92.

February 13, 1992

Depth: 6244', 24 hr. footage: 288'. Penetration rate: 6-8' per hr. Miss. Lm formation. Mud: vis 43, wt 9.2, pH 9.5, WL 12.8, ck 2/32. DC 18-5-3/4, 40,000#. Wt on bit: 38,000#. RPM 74, SPM 41, pressure 600#. Bit #2, Reed HP53, 7-7/8, Serial #V-84404, jets 3-14, in hole @ 5868'. Hrs. on bit 25-3/4, 376'. Drilling ahead w/one pump motor down.

February 14, 1992

Depth: 6359', 24 hr. footage: 115'. Penetration rate: 8-10' per hr. Miss. Lm formation. Mud: vis 47, wt 9.3, pH 9.5, WL 10.6, ck 2/32. DC 18-5-3/4, 40,00#. Wt on bit: 38,000#. RPM 74, SPM 60, press. 850#. Bit #2 in hole @ 5868', hrs. on bit 40-1/2, 491'. Trip out hole to replace #1 pump engine and check bit #2 @ 6280'. Back OB drilling @ 5:15 P.M. Drlg. 10' lost full returns. Three breaks in Miss. Lm @ 6244'. 6267' possible lost circ. zone. Mix pill hulls & fiber, get back returns. Mix three pill LCM, spot over lost circ. zone.

February 15, 1992

Depth: 6549', 24 hr. footage: 190'. Penetration rate: 8-10' per hr. Viola Lm formation. Mud: vis 52, wt 9.1, pH 9.5, WL 9.8, ck 2/32. DC 18-5-3/4, 40,000#. Wt on bit: 38,000#. RPM 66, SPM 62, press. 825#. Bit #2 in hole @ 5868', hrs. on bit 63-1/2, 681'. Drlg. break @ 6548 to 6555'. Figure 12' high to Thomas #1. Circ. samples 1-1/2 hrs. No show.

February 16, 1992

Depth: 6615', 24 hr. footage: 66'. Penetration rate: DST #1. Viola Lm formation. Deviation: 1-1/2° @ 6615'. Mud: vis 50, wt 9.0, pH 9.5, WL 9.8, ck 2/32. DC 6-5-3/4, 12,000#. Circ. samples @ 6559' 1-1/2 hrs. No show. Circ. samples @ 6587' 45 min. No show. Top porosity and perm. @ 6596'. Circ. samples @ 6615'. DST #1 Viola Lm 6593-6615'. Open tool w/strong blow on pre-flow 15 min. ISIP 1-1/2 hrs. Gas surface 20 min. Blow slightly decrease throughout test. Open 2 hrs. Pre-flow 111# to 144# 15 min. ISIP 2095' in 90 min. Final flow 166-422 120 min. FSIP 2040 in 3 hrs. Rec. 924', free gasy oil & 180' mud water; 29,000 PPM oil 46 gravity @ 60°F.

REEF EXPLORATION INC
MOORE #1
CLARK COUNTY, KANSAS
Drilling - Page 5

February 17, 1992

Depth: 6680', 24 hr. footage: 75'. Penetration rate: 8-10' per hr. Viola Lm formation. Deviation: 1-1/2° @ 6680'. Mud: vis 55, wt 9.2, pH 9.5, WL 10.6, ck 2/32. DC 18-5-3/4, 40,000#. Wt on bit: 38,000#. RPM 74, SPM 62, press. 825#. Bit #2 in hole @ 5868'. Hrs. on bit 75, 812'. TD @ 6680' @ 7:55 P.M. Circ. hole clean 2 hrs.; pull out, run logs.

February 18, 1992

Depth: 6680' TD. Viola Lm formation. Deviation: 1-1/2° @ 6680'. Mud: vis 53, wt 8.9, pH 9.5, WL 10.4, ck 2/32. DC 18-5-3/4, 40,000#. Circ. condition hole. Finished logging @ 9:15 A.M. Go back in hole to condition mud and hole run csg. Circ. for 1 hr. 45 min. Start laying down DP.

February 19, 1992

Depth: 6680' TD. Set production string. Finished running 158 jts. 5-1/2, 15.5 csg. Set @ 6679'. Latch down plug @ 6635.21. Ran super seal float shoe w/latch down plug insert, 14 centralizers. Reciprocated csg. and circ. for 1 hr. 15 min. before cement. Halliburton pump 225 sks. Premium cement w/18% salt, 5% Cal-Seal and 5# Gilsonite 3/4% CFR-2. Rate 8 BPM, av. wt. 15.3, yield 1.40 cu. ft. per sk. Plug down @ 3:10 A.M. Pressure up 2000# on csg. 5 min. Pump plug down w/2% KCL water.