P. O. BOX 716 **RDH ENTERPRISES, INC.** EL RENO, OK. 73036
OFFICE:405-262-9116 E-MAIL: RDHEnt@sbcglobal.net FAX: 405-262-2503

WELL:	**LEO #1-4**
LOCATION:	**SE/4 NE/4 SECTION 4-T35S-R16W**
COUNTY:	**COMANCHE COUNTY, KS**
TEST:	**MISSISSIPPIAN**
TOTAL DEPTH:	**5500'**
GROUND ELEVATION:	**1859'**
KELLY BUSHING ELEVATION:	**1867'**
CONTRACTOR:	**PIONEER DRILLING - RIG# 47**

WELL GEOLOGIST: **TOM FARRELL** **MOBILE #: 405-826-4758**

15-033-21463

03/02/06 Settle surf damages; stake well loc.

03/06/06 Litzenberger Const. bldg ls rd & loc.

03/07/06 Cont. loc construction; Compact reserve pit.

03/08/06 Install cattle gaurd and continue loc construction

03/09/06 Big Bucket rat hole on loc; drld 30" conductor hole; set 20" conductor pipe /4 yrds grout; set 4' 60" steel collar; WOR

03/10/06 No Report
03/11/06 Present Operation: Pioneer rigging up Rig #47.
03/12/06 Spudded well @ 9:30 am. Bit no. 1-12 ¼" HTC MXC-1; Depth in 40'; drilled 6 ½ hrs made 248'.

03/13/06 Present Operation: Rig repair, current depth at time of report 388'. WOB 20K; RPM 110; Pump PSI 1000;GPM 363; Pump #1 Liner 6; Stroke length 16; SPM 55; Native mud/water.
Past 24 Hrs: Finished rigging up-(3 ½ hrs); spudded well @ 9:30 am 3/12/06; Drilled 12 ¼" surface hole to 388'; Mud pump clutch went out; TOH w/bit; shut down for pump repairs. Rig repair-13 ½ hrs; service rig-1hr.

3/14/06 Present Operation: Rig repair; working on mud pump.
T.D. @ report 388'.
Past 24 Hrs: 24 hr downtime-out of hole w/DC; working on mud pump.

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3/15/06 Present Operation: Rig Repair; 24 hr downtime: Installing & working on new mud pump.
T.D. @ report 388'.

3/16/06 Present Operation: Drilling surface hole.
T.D. @ report 920'. WOB 10K; RPM 110; pump PSI 900; Pump #1 Liner 6 Stroke Length 16; SPM 65; Native mud/water.
Past 24 Hrs: Finished rig repairs; TIH w/ BIT; Resumed Drilling Surface Hole @ 7:30 P.M. drilled to 920'.

3/17/06 Present Operation: NU BOP
T.D. @ report 1045'. Past 24 hours: Drilled to 1045'; Circ hole clean; Pulled wiper trip; circ hole clean; drop survey; TOH w/ Bit #1; RU casing crew- ran 23 JTS (1036.69') 8 5/8" 24# J-55 ST&C Surface casing w/ T.P. Guide shoe , AFU insert float valve, 2 centralizers, & 1 cement basket; set casing @ 1034' KB, RU allied-cemented w/ 350 sx 65/35 lite-poz w/ 6% gel, 3% CaCl, & ¼#/SK flocele; tailed in w/ 150 SX class "A" cement w/ 3% CaCl & 2% gel; Displaced Cement w/ 63 BBL. WTR; Had good circulation throughout JOB & good cement returns

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(approx. 40 BBL to PIT) Plug down @ 3:30 P.M.; Bumped plug to 900#; Float Held; WOC 9 Hrs cut off casing & welded on casing head; Nippled up BOP.

3/18/06 Present Operation: Drilling. T.D. @ Report: 2030. Past 24 Hrs.: Finish NU/BOP; TIH w/ Bit #2; Tested BOP to 500#; Drilled out plug & cement; Commenced drilling new hole @ 1:30 P.M.

3/19/06 Present Operation: Displace Mud Systems; T.D. @ Report: 3297. Past 24 Hrs.: Drilled to 3297'; Dumped & cleaned pits; Displaces mud system.

3/20/06 Present Operation: Drilling; T.D. @ Report: 4590'.

3/21/06 Present Operation: Drilling; T.D. @ Report: 5473'.

3/22/06 Present Operation: TIH w/ Bit; T.D. @ Report: 5550 T.D. Past 24 Hrs.: Drilled to 5500' T.D. @ 7:00 A.M. Circ 1 ½ Hrs.; Pulled 75 STD wiper trip; Circ 2 ½ Hrs.; TOH F/ logs RU Weaterford wireline; ran combo tool; Logs on Bottom 2:15 A.M. (logger T.D.-5550'); Ran array Induction-SFL from 5550'-1035' Ran photo density/Comp Neutron/ Microlog from 5550'-4440' Rig down loggers; TIH w/ Bit.

3/23/06 Present Operation: Waiting on completion. Past 24 Hrs.: TIH w/ Bit; Circ & cond mud 2 Hrs; LDDP;LDDC; RU casing crew- Ran 137 JTS (5441.57') 4 ½" 11.6# J55 LT&C casing w/ AFU float shoe, L.D. baffle & 8 certralizers; Set casing @ 5438' K.B. RU allied - pumped 250 Gal. CW spacer & 250 Gal. Mud flush; Cemented w/ 200 SX class "H" cement w/ 6% Calseal, 10% salt, 1% Gel, 5#/SK Kolseal, & .6% FL160; Displaced cement w/ 84 BBL water; Good circulation throughout job; Plug down @ 2:30 a.m. Bumped plug to 1660#; Floats held; Nippled down BOP & set slips; Rig released @ 7:30 a.m. 3/23/06.

5/03/06 Present Operation: Prep to MIRU completion rig. Past 24 Hrs.: Installed safety anchors; RU wireline w/ portable crane unit; Ran GR-CCL- cement bong log from 5386' to 3900'; top of cement @ 4200'; Good overall cement bond & good isolation of pay zones; SDFD.

5/04/06 Present Operation: Swabbing fluid level down. Past 24 Hrs.: MIRU completion rig; Installed BOP; Tallied 273 JTS (5397.94') 2 3/8" 4.7# J55 EUE tubing; Picked up & TIH w/ 3 7/8" bit, 4 ½ casing scraper, XO sub, & 273 JTS 2 3/8" tubing; tagged PBTD @ 5398' K.B.; RU pump truck- Circulated hole clean w/ 12 BBL 2% KCL treated water; Pressure tested casing & BOP to 2000# - Held OK; SDFD.

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5/05/06 Present Operation: Shut down for rig repair. Past 24 Hrs: Swabbed fluid level down to 1500'; clutch on sand line drum went out; TOH w/ 272 JTS 2 3/8 tubing, casing

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scraper, & bit; RU wireline- perforated Mississippi @ 5314'-5321', 5296'-5310', 5282'-5291', & 5268'-5276' w/ 3 SPF (90 Phase) using 3 1/8" casing guns (114 Holes); Fluid level 1530' before perf- no change after perf; TIH w/ 4 ½" Model "R" packer, 1.78" SN, & 167 JTS, 2 3/8 Tubing; Set packer @ 5229' K.B.; Flanged up wellhead; rigged down completion rig & moved out for rig repair. Note: Acid job will be rescheduled contingent upon rig repair or swab rig availability.

05/09/06 Present Operation: Swabbing back load. Past 24 Hrs: MIRU completion rig; 88 HR SITP 0# (light blow) Swabbed well down; SFL 1000'/ FFL-Dry; Recovered 11.1 BLW & swabbed dry; Slight trace of Gas ahead of swab-Vacuum behind swab; RU Cimarron-Loaded & pressured annulus to 1000#; Acidized Mississippi (5268'-5321' OA) w/ 5000 Gal. 15% NEFE Acid w/ additives using 150 Ball Sealers; IPIP 2500# @ .9 BPM; Treated @ 6.7 BPM @ 820# ATP; Displaced w/ 110 BBL treated slickwater; Had good Ball action to 1250#- Did not ball off; ISDP 140#, 5 Min-90#, 10 min-80#, 15 Min-70#; Total load to recover-230 BLW; Swabbed 6 Hrs; SFL-surface/FFL- 3800' (Scattered to SN); Recovered 84.1 BLW (-145.9 BLTR); AVG 4 BLWPH Last 2 Hrs.; Fair gas blow ahead & behind swab; Samples show 5% oil cut;SDFD.

05/10/06 Present Operation: Swab Testing. Past 24 Hrs: 13 HR SITP 160#; Blew well down; Swabbed 10 Hrs; SFL 1700' (100' Free oil)/ FFL 4900' (Scat); Recovered 38.7 BLW (-107.2 BLTR) AVG 1.9 BLWPH last 2 Hrs; Light gas blow ahead & Behind swab; Samples show load water w/ 5% oil cut; Shut in & SDFD.

05/11/06 Present Operation: Waiting on Frac; Past 24 Hrs: 14 HR SITP 150#; Blew well down; Swabbed 1 1/2 Hrs; SFL 3100' (100' Free oil)/ FFL-DRY; Recovered 9.6 BLW (-97.6 BLTR) & swabbed dry; light gas blow ahead & behind swab; final samples show 5% oil cut; rigged down & moved out rig;

6/14/06 Present Operation: Rigging down completion rig; Past 24 hours: MIRU completion rig; SITP 220#; Blew well down; Released packer & installed BOP; TOH & layed down 167 JTS 2 3/8" tubing, SN, & 4 ½" MOD. "R" packer; Removed BOP & Installed 4" frac valve; Could not rig down due to high winds; SDFD.

6/29/06 Present Operation: Prep to TIH w/ tubing Past 24 Hours: Rigged up A & J; Fracture treated Mississippi (5268'-5321' OA) Down 4 ½" casing w/ 218,000 Gal. Treated slickwater & 37400# 20/40 Ottawa sand as follows:

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Pumped 28000 Gal. Treated slickwater as pad
Pumped 23280 Gal. treated slickwater w/ ¼ PPG 20/40 Sand
Pumped 23280 Gal. treated slickwater w/ ½ PPG 20/40 Sand
Pumped 28000 Gal. treated slickwater as flush
Pumped 2000 Gal. treated slickwater w/ 2500# rock salt

as diverter
Pumped 28000 Gal. Treated slickwater as pad
Pumped 23280 Gal. Treated slickwater w/ ¼ PPG 20/40 sand
Pumped 23280 Gal. Treated slickwater w/ ½ PPG 20/40 sand
Pumped 38880 Gal. Treated slickwater as overflush
Average treating pressure-1800 PSI, Max-1940 PSI, Min.-1270 PSI
Average treating rate-62 BPM, Max-64.7 BPM, Min-15.5 BPM
ISDP-250 PSI, 5 Min-220 PSI, 10 min-200 PSI, 15 Min-180 PSI.
Total Frac load to recover-5194 BLW. Shut well in; Rig Down & move out A&J; SDFD.

06/30/06 Present Operation: Moving in swabbing unit. Past 24 Hours: MIRU Completion rig; SICP 0# (Vacuum); Removed frac valve; Installed BOP; Picked up & TIH w/ 1.78" SN & 168 JTS 2 3/8" tubing; Removed BOP; Set SN @ 5254' KB & flanged up wellhead; Rigged down & moved out rig; SDFD.

7/1/06 Present Operation: Swab/flow back frac load. Past 24 Hours: 13 HR SITP 630# SICP 570#; Blew well down; Swabbed 2 HRS; SFL 400'/FFL-Surface; Recovered 38.6 BLW & Ko flowing; Flowed 7 HRS: FTP 60# on 2" line; SICP 900# Recovered 233.6 BLW; AVG 47 BLWPH last 3 HRS; Total daily recovery -272.2 BLW (-4921.8 BLTR) Trace of oil on samples; Shut in & SDFD.

7/2/06 Present Operation: Shut down f/ Sunday. Past 24 HRS: 13 HR SITP 1000# SICP 1350#; open on 32/64 Choke; Fluid to surface in 45 Min; Flowed 11 HRS; FTP 50# on 2" line; SICP 1175#; Recovered 448.4 BLW (-4473.4 BLTR); Good show of gas w/ fluid; Samples show 2% oil cut; SDFD.

7/3/06 Present Operation: Swab/flow back frac load.
Past 24 Hrs: SD f/ Sunday.

7/4/06 Present Operation: Shut down f/ holiday.
Past 24 HRS: 37 HR SITP 1580# SICP 1590#; Opened well on 32/64" choke; EST. 3 BBL free oil recovered before water hit; Flowed 11 HRS; FTP 60# on 1" choke; SICP 1200#; Recovered 439 BLW (-4034.4 BLTR) Good show of gas w/ fluid; Samples show 2% oil Cut; SDFD.

7/5/06 Present Operation: Flowing back frac load. Past 24 Hrs: Shut down f/ Holiday.

7/6/06 Present Operation: Flowing back frac load. Past 24 Hrs: 37 HR SITP 1550# SICP 1550#; opened well on 32/64" choke; Est. 5 BBL free oil ahead of water; Flowed 11 Hrs; FTP 60# on 1" choke; SICP 1025#; Recovered 410 BLW (-3624.4 BLTR); Good show of gas w/ fluid; Samples showing 5% oil cut; SDFD.

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7/7/06 Present Operation: Flowing back frac load. Past 24 Hrs: 13 HR SITP 1400# SICP 1400#; Opened well on 32/64" Choke; Flowed Est. 6 BBL free oil ahead of water; Flowed

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11 hrs; FTP 50# on 1" choke SICP 975#; Recovered 351 BLW (-3273.4 BLTR); Good show of gas w/ fluid samples showing 5% oil cut; SDFD.

7/17/06 SICP 1520#, SITP 1520#; Finalize tank battery installation; currently WOPL; Initial well test will be calculated through production unit once pipeline is installed.

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