

WFO
FILL

GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY **BEREXCO**
 LEASE Powell NO. 9-22
 LOCATION 2252' FSL + 1648' FWL
 SEC. 22 TWP. 29S RNG. 33W
 COUNTY Haskell STATE Kansas
 FIELD Lemon Northeast

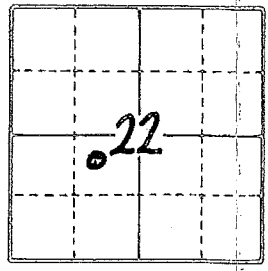
ELEVATIONS
 KB 2954
 DF 2952
 GL 2942
 MEASUREMENTS ARE ALL FROM KB

CONTRACTOR Beredco Drlg. Rig #1
 COMM. 6-17-2015 COMP. 7-22-2015
 RTD 5631 LTD 5634
 No. of DST'S Ten No. of CORES None

CASING RECORD
8 7/8" OF 1750' W/ 800' SH.
 OF W/ SH.
 OF W/ SH.
 OF W/ SH.
 EL. LOG AL. RES. SP. BK
DEN. NEUT. GR. CALIPER
ML. SONIC

SAMPLES SAVED FROM 3800 TO TD
 DRILLING TIME KEPT FROM 3800 TO TD
 SAMPLES EXAMINED FROM 3800 TO TD
 GEOLOGICAL SUPERVISION FROM 3800 TO TD
 GEOLOGIST ON WELL Edwin H. Grieves

FORMATION TOPS	SAMPLE	LOG	SUBSEA
<u>Base Heebner</u>	<u>4091</u>	<u>4087</u>	<u>-1133</u>
<u>Toronto</u>	<u>4101</u>	<u>4098</u>	<u>-1144</u>
<u>Lausing Fm.</u>	<u>4131</u>	<u>4134</u>	<u>-1180</u>
<u>Kansas City Fm</u>	<u>4604</u>	<u>4604</u>	<u>-1650</u>
<u>BKC</u>	<u>4751</u>	<u>4750</u>	<u>-1796</u>
<u>Marathon Fm</u>	<u>4762</u>	<u>4761</u>	<u>-1807</u>
<u>Pawnee</u>	<u>4870</u>	<u>4871</u>	<u>-1917</u>
<u>Et Scott</u>	<u>4907</u>	<u>4909</u>	<u>-1955</u>
<u>Cherokee</u>	<u>4926</u>	<u>4926</u>	<u>-1972</u>
<u>Morrow</u>	<u>5210</u>	<u>5210</u>	<u>-2256</u>
<u>Chester</u>	<u>5384</u>	<u>5390</u>	<u>-2426</u>
<u>St. Genevieve</u>	<u>5514</u>	<u>5510</u>	<u>-2556</u>
<u>TD</u>	<u>5631</u>	<u>5634</u>	

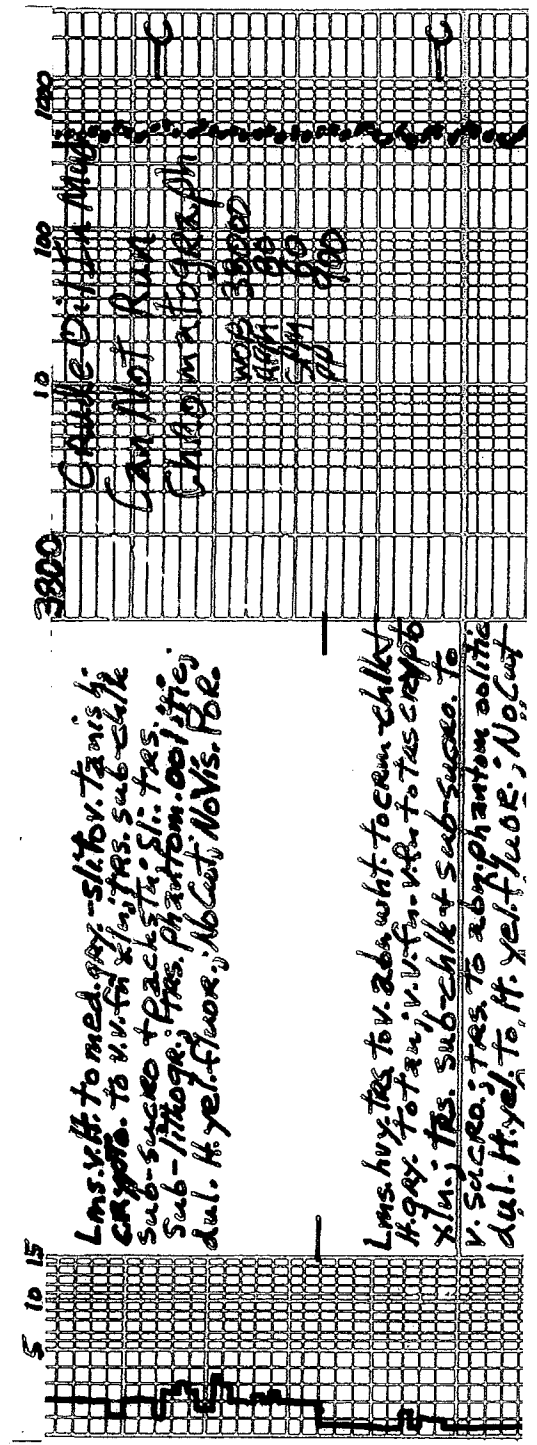


API#15-081-22115

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 3800 feet to Total Depth.

Note: Grade Oil put in mud after becoming stuck in hole twice. Therefore, could not operate the chromatograph on this well.

Edwin H. Grieves
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 Geo



Lms. hv. trs. to v. abd. wht. to cream. chlk. to
lt. gray. Tot. in; v. v. fine. v. to trs. crapp
xln.; trs. sub-chlk. & sub-sucro. to
v. sucro.; trs. to abn. phantom oolitic
dul. H. yel. to lt. yel. fluor.; No. cut
abn. pd. fr. to 100 ft. trs. excell. pp
micro-pp & inter xln. por.

3900

3888-4054
In the bedded lms. & scattered thin
shales
① Faster Dalg. Lms. similar 3834-3888
② Slower Dalg. Lms. similar 3800-3834
③ scattered thin Shales H. to med. &
trs. dk. gray - v. calc. lps. to
v. dk. gray. to sl. trs. black

4000

Lms. H. to med. gray, tanish lps; cr. p. to
v. v. fine. xln.; sub-sucro. to sucro. lps. &
packets; d. ab. yel. fluor.; No. cut
poss. inter xln. por. lps

Sh. dk. to v. dk. gray - calc. to v. dk. gray
to black - calc. to v. dk. gray

Lms. H. gray, tanish lps; cr. p. to v. v. fine. xln.;
to sub-litho. d. ab. yel. fluor.; No. cut; Ab. lps. to
sh. H. gray, greenish lps; v. soft mass when wet

4100

Lms. H. to med. gray - tanish lps; cr. p. to v. v. fine. xln.;
to sub-litho. d. ab. yel. fluor.; No. cut; Ab. lps. to
sh. H. gray, greenish lps; v. soft mass when wet

416-4173 Lms. w/ chert similar 4101-07

Sh. med. to dk. gray; sl. to v. calc. lps

4131-4177 Lms. H. to med. gray, tanish lps
cr. p. to v. v. fine. xln.; trs. sub-chlk
sub-sucro. & packets; d. ab. yel. fluor
Ab. cut; No. lps. por

Base Heebner
409-1136

Toronto
4101-1145

Lansing
4131-1176

Sub. sub-174pp. V. v. dul. yellow; No cut, No US POR
4497-4410 Lms. med. gray - fely. tan. Sh. w/tes. tan; crypto. sh. p. black. sh. and sub-lithog. i. tes. w/med. yellow. No cut, No US POR

SPM 850-700

4400

Sh. v. dark gray to black - carb.

4417-4426 Lms. similar 4397-4410
4426-4434 Lms. tes. whitish, med. black
4434-4440 Lms. med. gray, grayish, tan, gray
4440-4450 Lms. med. gray, grayish, tan, gray
4450-4460 Lms. med. gray, grayish, tan, gray
4460-4470 Lms. med. gray, grayish, tan, gray
4470-4480 Lms. med. gray, grayish, tan, gray
4480-4490 Lms. med. gray, grayish, tan, gray
4490-4500 Lms. med. gray, grayish, tan, gray

4450-4460 Lms. med. gray, grayish, tan, gray
4460-4470 Lms. med. gray, grayish, tan, gray
4470-4480 Lms. med. gray, grayish, tan, gray
4480-4490 Lms. med. gray, grayish, tan, gray
4490-4500 Lms. med. gray, grayish, tan, gray
4500-4510 Lms. med. gray, grayish, tan, gray
4510-4520 Lms. med. gray, grayish, tan, gray
4520-4530 Lms. med. gray, grayish, tan, gray
4530-4540 Lms. med. gray, grayish, tan, gray
4540-4550 Lms. med. gray, grayish, tan, gray
4550-4560 Lms. med. gray, grayish, tan, gray
4560-4570 Lms. med. gray, grayish, tan, gray
4570-4580 Lms. med. gray, grayish, tan, gray
4580-4590 Lms. med. gray, grayish, tan, gray
4590-4600 Lms. med. gray, grayish, tan, gray

4500

4504-4510 Lms. med. gray, grayish, tan, gray
4510-4520 Lms. med. gray, grayish, tan, gray
4520-4530 Lms. med. gray, grayish, tan, gray
4530-4540 Lms. med. gray, grayish, tan, gray
4540-4550 Lms. med. gray, grayish, tan, gray
4550-4560 Lms. med. gray, grayish, tan, gray
4560-4570 Lms. med. gray, grayish, tan, gray
4570-4580 Lms. med. gray, grayish, tan, gray
4580-4590 Lms. med. gray, grayish, tan, gray
4590-4600 Lms. med. gray, grayish, tan, gray

4512-4520 Lms. med. gray, grayish, tan, gray
4520-4530 Lms. med. gray, grayish, tan, gray
4530-4540 Lms. med. gray, grayish, tan, gray
4540-4550 Lms. med. gray, grayish, tan, gray
4550-4560 Lms. med. gray, grayish, tan, gray
4560-4570 Lms. med. gray, grayish, tan, gray
4570-4580 Lms. med. gray, grayish, tan, gray
4580-4590 Lms. med. gray, grayish, tan, gray
4590-4600 Lms. med. gray, grayish, tan, gray

4562-4600 Lms. med. gray, grayish, tan, gray
4600-4610 Lms. med. gray, grayish, tan, gray
4610-4620 Lms. med. gray, grayish, tan, gray
4620-4630 Lms. med. gray, grayish, tan, gray
4630-4640 Lms. med. gray, grayish, tan, gray
4640-4650 Lms. med. gray, grayish, tan, gray
4650-4660 Lms. med. gray, grayish, tan, gray
4660-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

4600

4617-4689 Lms. similar 4562-4600
4689-4651 Sh. dark gray - calc. to black
gray to black - carb.
4651-4660 Lms. similar 4562-4600
4660-4668 Lms. med. gray, grayish, tan, gray
4668-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

4600

4617-4689 Lms. similar 4562-4600
4689-4651 Sh. dark gray - calc. to black
gray to black - carb.
4651-4660 Lms. similar 4562-4600
4660-4668 Lms. med. gray, grayish, tan, gray
4668-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

4600

4617-4689 Lms. similar 4562-4600
4689-4651 Sh. dark gray - calc. to black
gray to black - carb.
4651-4660 Lms. similar 4562-4600
4660-4668 Lms. med. gray, grayish, tan, gray
4668-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

4600

4617-4689 Lms. similar 4562-4600
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gray to black - carb.
4651-4660 Lms. similar 4562-4600
4660-4668 Lms. med. gray, grayish, tan, gray
4668-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

4600

4617-4689 Lms. similar 4562-4600
4689-4651 Sh. dark gray - calc. to black
gray to black - carb.
4651-4660 Lms. similar 4562-4600
4660-4668 Lms. med. gray, grayish, tan, gray
4668-4670 Lms. med. gray, grayish, tan, gray
4670-4680 Lms. med. gray, grayish, tan, gray
4680-4690 Lms. med. gray, grayish, tan, gray
4690-4700 Lms. med. gray, grayish, tan, gray

4600

SPM 850-700

Show Show

Show Show

Show Show

Show Show

Show Show

Kansas City 1650

Show Show

Show Show

Show Show

Show Show

Show Show

Show Show

Show Show

Show Show

Show Show

U-fluor. No cuts, no visible
② Sh. med to v. dark grey - calc to indistinct
to black

5055-59 Sh. v. dark grey to black, sandy
5059-5066 Lms greyish to yellow
sh. med to v. dark grey to black
v. sh. or med. crystalline, silty
sub-spherical, calc. to indistinct, silty
to med. white to grey, calc. to indistinct, silty
to med. w/ fucoid marks, v. dark grey to black
v. sh. med to v. dark grey to black
interbedded, v. fine grained
5066-5075 Lms. H. to med. grey to black
IP's, calc. to v. sh. med to v. dark grey to black
v. sh. med to v. dark grey to black, calc. to indistinct

5075-5105 Lms. Similar to 5059-5066
w/ sh. more & better preserved in samples

5105-5117 Lms. similar to 5066-5075

5117-5123 Lms. similar to 5059-5066
w/ calc. to v. sh. med to v. dark grey to black
preserved to v. sh. med to v. dark grey to black
5123-5133 Lms. similar to 5066-5075

5133-5194 Interbedded lms & shs
① Lms H. to med grey - silty to sandy, calc. to
v. sh. med to v. dark grey to black, calc. to indistinct
to med. white to grey, calc. to indistinct, silty
to med. w/ fucoid marks, v. dark grey to black
v. sh. med to v. dark grey to black, calc. to indistinct
to med. white to grey, calc. to indistinct, silty
to med. w/ fucoid marks, v. dark grey to black
② Sh. med to v. dark grey - calc. to indistinct
to black - calc.

5194-5210 Interbedded lms & shs

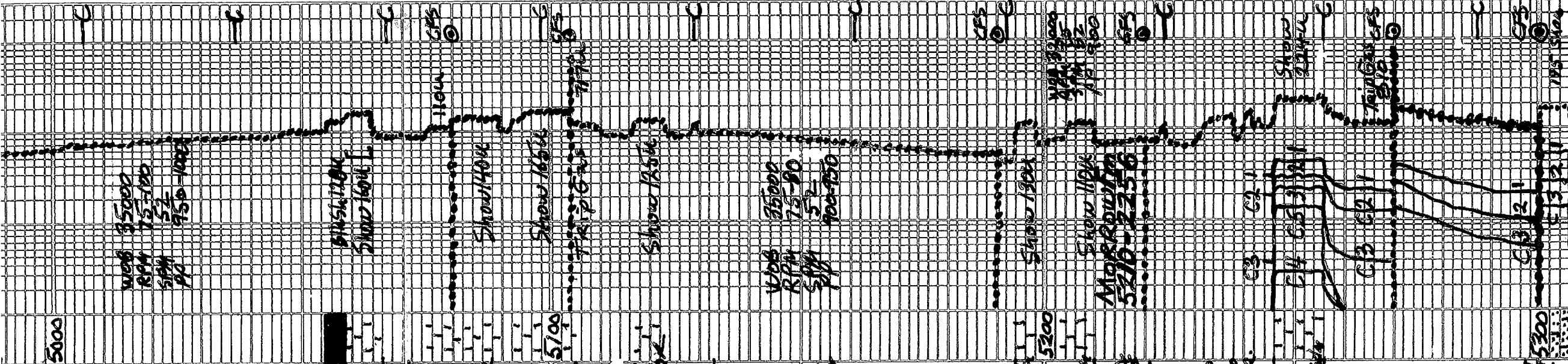
① Lms. greyish to tan, w/ sh. med to v. dark grey to black
calc. to indistinct, silty to sandy, calc. to indistinct
to med. white to grey, calc. to indistinct, silty
to med. w/ fucoid marks, v. dark grey to black
v. sh. med to v. dark grey to black, calc. to indistinct
to med. white to grey, calc. to indistinct, silty
to med. w/ fucoid marks, v. dark grey to black
② Sh. med to v. dark grey - calc. to indistinct
to black - calc.

5210-5221 Sh. med to v. dark grey; splintery

5221-5246 Interbedded shs & lms
① Sh. med to v. dark grey to black, calc. to indistinct
to med. white to grey, calc. to indistinct, silty
to med. w/ fucoid marks, v. dark grey to black
v. sh. med to v. dark grey to black, calc. to indistinct
to med. white to grey, calc. to indistinct, silty
to med. w/ fucoid marks, v. dark grey to black
② Lms. similar to 5059-5066, calc. to indistinct
to med. white to grey, calc. to indistinct, silty
to med. w/ fucoid marks, v. dark grey to black
③ Sh. med to v. dark grey to black, calc. to indistinct
to med. white to grey, calc. to indistinct, silty
to med. w/ fucoid marks, v. dark grey to black

5256-5277 Sh. med to v. dark grey; splintery
IP's; abn. lms. to v. sh. med to v. dark grey to black
Qtz silty

5297-5298 Interbedded lms & shs
Lms. sh. med to v. dark grey to black, calc. to indistinct
to med. white to grey, calc. to indistinct, silty
to med. w/ fucoid marks, v. dark grey to black
sh. med to v. dark grey to black, calc. to indistinct
to med. white to grey, calc. to indistinct, silty
to med. w/ fucoid marks, v. dark grey to black



5059
RPM 75-100
SPM 57
PO 150-100

Show 1856

Show 1856

Show 1856

Show 1856

Show 1856

5059
RPM 75-100
SPM 57
PO 150-100

Show 1904

Show 1905

Show 1906

Show 1907

Show 1908

Show 1909

Show 1910

Show 1911

Show 1912

5300

micko - 10118c in vial. 10118c to vial. 10118c to vial.
 Qtz sdy - v. fine gr. - 2 mg, matrix
 500 - succo. to succo. 10118c to vial. 10118c to vial.
 fluor. j. No cuts. No Vis for R

lms. pas. wlt. to am-cklk, slt pas. wlt. cklk
 oo. l. tes. and. 10118c to vial. 10118c to vial.
 to v. v. En. w. j. ext. l. 10118c to vial. 10118c to vial.
 (g) matrix pas. sub-cklk, sub-succo
 to succo. 10118c to vial. 10118c to vial.
 fluor. j. No cuts. No Vis for R. w/v. 2 bu.
 Chert butter scotch to orange,
 opaque to sh. trans

5600
 5597
 5697

TD 5631

7 7/8" Bit Info
 #1 New GT - GT 23 1750 3796
 #2 ReRun Smith TC FH 123NP 3796 4235
 #3 New GFG TM 25XG 4325 5631 TD

CIA Points:

1. 4198
2. 4235
3. 4272
4. 4440
5. 4473
6. 4511
7. 4525
8. 4620

11. 4821
12. 4890
13. 4920
14. 5080
15. 5104
16. 5780
17. 5220
18. 5270

Dev. Survey:

1. 491 1 1/2°
2. 1000 1°
3. 1750 1 1/2°
4. 2778 1 1/2°
5. 3252 1°
6. 4235 1/4°

Daily Drelg Progress:

1. 3584 At 7:00AM 7-1-2015
2. 3796 At 7:00AM 7-2-2015
3. 3796 At 7:00AM 7-3-2015
4. 3796 At 7:00AM 7-4-2015
5. 3931 At 7:00AM 7-5-2015
6. 4235 At 7:00AM 7-6-2015
7. 4931 At 7:00AM 7-7-2015
8. 4473 At 7:00AM 7-8-2015
9. 4571 At 7:00AM 7-9-2015
10. 4668 At 7:00AM 7-10-2015
11. 4737 At 7:00AM 7-11-2015
12. 4800 At 7:00AM 7-12-2015
13. 4821 At 7:00AM 7-13-2015
14. 4890 At 7:00AM 7-14-2015
15. 5006 At 7:00AM 7-15-2015
16. 5104 At 7:00AM 7-16-2015
17. 5220 At 7:00AM 7-17-2015
18. 5270 At 7:00AM 7-18-2015
19. 5330 At 7:00AM 7-19-2015
20. 5472 At 7:00AM 7-20-2015
21. 5631 At 7:00AM 7-21-2015
22. 5631 At 7:00AM 7-22-2015

DST #1 Lansing "B" 4229-4235
 ID weak blow incr. to 1 1/4"
 FO weak blow incr. to 3/4"
 Rec 45 ft w/rey mud 30% wite 70% Mud
 Tool Samp had oil spots
 Chl 62000ppm R w. 11 At 900F pH 7.0
 Pit Chl 6800ppm Max Temp 116.0F
 IEP 10129 #
 IEP 10136 # in 30 min
 151P 5240 # in 60 min
 FFP 40-70 # in 60 min
 FSP 541 # in 120 min

Pitch 6800ppm Max Temp 116°F
 IHP 2029 # in 30 min
 ISIP 540 # in 60 min
 FFP 40-70 # in 60 min
 FSIP 521 # in 120 min
 FHP 2031 #

DST #2 Lansing "H" 4495-4473
 Fo weak blow in 7 1/2"
 Rec 100ft 5% Gas 20 min
 650ft GIP 25% oil 70% mud
 Tool Samp 10% Gas 40% oil; 50% mud
 Max Temp 118°F
 IHP 2077 #
 IFF 15-33 # in 30 min
 ISIP 475 # in 60 min
 FFP 37-58 # in 60 min
 FSIP 521 # in 120 min
 FHP 2074 #

DST #3 Lansing "I" 4497-4511
 Fo weak blow in 4 1/2"
 Rec 40ft 5% oil 95% mud
 150ft GIP 32% oil 68% mud
 Tool Samp 120°F
 Max Temp 120°F
 IHP 2208 #
 IFF 21-32 # in 30 min
 ISIP 655 # in 60 min
 FFP 35-51 # in 60 min
 FSIP 680 # in 120 min
 FHP 2107 #

DST #4 Kansas City "B" 4658-4668
 Fo BOB 10 sec GTS 7 1/2 min
 Rec 20ft 20% Gas 80% oil
 380ft 20% Gas 10% oil 50% water 20% Mud
 50ft Oil Grav 37% @ 60°F
 Chl 9900ppm Rv .08 @ 70°F
 PH 7.0 pH Chl 300ppm Max Ten 132 pp

IHP 2176 # in 30 min
 IFF 52-79 # in 60 min
 ISIP 487 # in 60 min
 FFP 57-162 # in 60 min
 FSIP 477 # in 120 min
 FHP 2174 #

Time	Ch	PSI	MCFD
15	.5	6.5	90.1
30	.5	4	68.8
10	.25	20	47.1
20	.25	18	43.9
30	.25	16.5	41.5
40	.25	16	40.9
50	.25	16	40.9
60	.25	16	40.9

DST #5 Marmaton 4780-4800
 Fo BOB 15 sec GTS 8 1/2"
 Rec 30ft 15% Gas 85% Mud
 30ft 10% Gas 90% Oil
 Oil Grav. 37 @ 60°F Max Temp 143°F
 IHP 2260 # in 30 min
 IFF 42-30 # in 60 min
 ISIP 830 # in 60 min
 FFP 31-84 # in 60 min
 FSIP 796 # in 120 min
 FHP 2261 #

Time	Ch	PSI	MCFD
10	.125	20	14.6
20	.125	28	18.2
30	.125	35	21.2
40	.125	37	22.1
50	.125	37.5	23.3
60	.125	38	22.5

DST #6 Marmaton 4804-4821
 Fo Strong Blow BOB 16 min
 Rec 30ft Mud 3 min
 Max Temp 123°F 2700ft GIP
 IHP 2338 # in 30 min
 IFF 10-17 # in 60 min
 ISIP 138 # in 60 min
 FFP 15-22 # in 120 min
 FSIP 140 #

60 1147 38 1210
 DST#6 Max Row 4804-4821
 10 Strong Blow BOB 16 min
 Fo Strong Blow BOB 3 min
 Rec 30 ft Mud 2700 ft GIP
 Max Temp 123°F
 IHP 2338# 1 in 30 min
 ISIP 138# 1 in 60 min
 FFP 15-22# 1 in 60 min
 FSIP 140# 1 in 120 min
 FHP 2328

DST#7 Pawnee 4878-4890
 10 weak blow Nick 7"
 Fo Fair Blow Nick BOB 15 min
 Rec 25 ft 100% oil 99% Mud 1250 GIP
 IHP 2371# 1 in 30 min
 ISIP 12-13# 1 in 60 min
 FFP 155# 1 in 60 min
 FSIP 12-13# 1 in 60 min
 FHP 161# 1 in 120 min
 FHP 2371#

DST#8 Atoka 5054-5104
 10 BOB 15 sec GTS 3 min
 Fo BOB ASAO Gauge Gas
 Rec 20 ft 65% oil 35% wtk
 180 5% oil 95% wtk
 450 100% wtk

chl 108000 ppm R.W. 0750 20°F pH 7.5
 PIT Chl 4800 ppm Max Temp. 128°F
 IHP 2481# 1 in 30 min
 ISIP 687-762# 1 in 60 min
 FFP 1207# 1 in 60 min
 FSIP 605-719# 1 in 60 min
 FHP 1195# 1 in 120 min
 FHP 2479#

Time	Ck	PSI	MGFPD
10	.75	225	2779.5
20	.75	220	2716.0
30	.75	230	2831.0
10	1.25	57	2594.0
20	1.25	68	2591.0
30	1.25	62	2883.0
40	1.25	72	3135.0
50	1.25	70	3083.0
60	1.25	70	3068.0

DST#9 Morrow 5238-5270
 10 Strong Blow BOB 1 min GTS 22 min
 Fo Strong Blow BOB 10 sec Gauge Gas
 Rec 30 ft. 15% gas 1% oil 78% Mud
 Max Temp 130°F
 IHP 2420# 1 in 30 min
 ISIP 30-75# 1 in 60 min
 FFP 1136# 1 in 60 min
 FSIP 41-98# 1 in 60 min
 FHP 1133# 1 in 120 min
 FHP 2404#

Time	Ck	PSI	MGFPD
22	.25	30	61.9
30	.25	35	69.0
10	.25	22	50.2
20	.25	37	71.8
30	.25	48	86.8
40	.25	58	98.1
50	.25	63	107.8
60	.25	70	117.5

DST#10 Morrow 5305-5330
 10 Strong Blow BOB 20 sec GTS 9 min
 Fo Strong Blow BOB 6 sec Gauge Gas
 Rec 5 ft 10% Gas 90% Mud Max Temp 126°F
 IHP 2574# 1 in 30 min
 ISIP 32-38# 1 in 60 min
 FFP 1526# 1 in 60 min
 FSIP 32-61# 1 in 60 min
 FHP 1520# 1 in 120 min
 FHP 2520#

Time	Ck	PSI	MGFPD
20	.5	8	101.0
30	.5	7	94.5
10	.5	28	59.0
20	.25	36	70.3
30	.25	44	81.2
40	.25	49	88.3
50	.25	50	89.7
60	.25	51	91.0

Mud Info:

VFP 13.20 # 1m60 min
 FFP 31.6 # 1m20 min
 FSIP 15.20 #
 FHP 25.20 #
 IF
 FF

PSI
 8
 7
 7
 28
 36
 44
 49
 50
 51

MCFPD
 101.0
 94.5
 94.5
 59.0
 70.3
 81.2
 98.3
 89.7
 96.0

CH
 .5
 .5
 .25
 .25
 .25
 .25
 .25

Time
 20
 30
 10
 20
 30
 40
 50
 60

Mud Info:

Date	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8
Depth	3601	3796	3796	3796	3796	4064	4233	4498
Wt.	8.7	8.8	8.9	8.65	8.6	9.0	9.1	9.1
Vis	49	45	66	91	70	55	46	48
PV	15	12	14	19	14	16	14	14
YP	17	12	19	21	15	22	15	15
GS	14 1/2	10 3/8	17 1/2	27 1/2	16 1/4	18 1/2	14 1/4	14 1/2
WL	8.8	8.8	8.8	8.0	8.0	15.6	10.4	9.2
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	11.5	11.0	10.5	9.0	9.0	8.5	9.0	10.5
CHI	2900	2400	3700	5600	3200	9400	6800	4200
CA	20	20	40	40	20	120	60	40
LCM	4	3 1/2	3 1/2	2	3	2	4	3

Date	7-9	7-10	7-11	7-12	7-13	7-14	7-15	7-16
Depth	4473	4511	4468	4789	4800	4821	4890	5045
Wt.	9.1	9.0	9.2	9.2	9.1	8.75	9.1	9.1
Vis	46	57	53	62	78	70	72	92
PV	14	16	17	18	18	18	16	16
YP	14	18	17	21	19	22	19	18
GS	13 1/4	17 1/2	16 1/4	17 1/2	20 1/2	17 1/2	16 1/2	15 1/2
WL	8.0	9.2	9.2	10.0	9.5	9.6	11.5	10.0
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	11.0	10.0	9.5	9.0	10.0	11.0	10.5	9.5
CHI	3600	3800	3600	5100	5600	4800	8000	4800
CA	40	60	40	20	20	20	40	80
LCM	4	3	3	2	4	3	3	4

Date	7-17	7-18	7-19	7-20	7-21
Depth	5104	5263	5270	5330	5476
Wt.	9.1	9.05	9.1	9.1	9.15
Vis	52	66	55	48	79
PV	17	14	16	12	17
YP	17	17	17	15	17
GS	16 1/4	19 1/2	19 1/4	14 1/2	17 1/2
WL	10.4	8.8	9.2	9.2	10.0
Cake	1/32	1/32	1/32	1/32	1/32

YP	17	12	10	21	15	22	15	15
GS	14 1/2	10 3/10	17 1/4	22 1/2	16 1/4	19 1/2	14 1/2	14 1/2
WL	8.8	8.8	8.8	8.0	8.0	15.6	10.4	9.2
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
PH	11.5	11.0	10.5	9.0	9.0	8.5	9.0	10.5
CHI	2900	2400	3700	5600	3200	9400	6800	4200
Ca	20	20	40	40	20	120	60	40
LCM	4	3 1/2	3 1/2	2	3	2	4	3

Date	7-9	7-10	7-11	7-12	7-13	7-14	7-15	7-16
Depth	4473	4511	4618	4789	4800	4821	4870	5045
WT.	9.1	9.0	9.2	9.3	9.1	8.5	9.1	9.1
Vis	46	57	53	62	78	70	72	92
PV	14	16	17	18	18	18	16	16
YP	14	18	17	21	19	22	19	18
GS	13 1/4	17 1/3	16 1/4	17 1/2	17 1/2	17 1/2	19 1/2	15 1/2
WL	8.8	9.2	9.2	10.8	9.6	9.6	11.5	10.8
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
PH	11.0	10.0	9.5	9.0	10.0	11.0	10.5	9.5
CHI	3600	3800	3600	5100	5600	4800	8000	4800
Ca	40	60	40	20	20	20	40	80
LCM	4	3	3	2	4	3	3	4

Date	7-17	7-18	7-19	7-20	7-21			
Depth	5104	5163	5270	5330	5476			
WT.	9.1	9.05	9.1	9.1	9.15			
Vis	52	66	55	48	79			
PV	17	14	16	12	17			
YP	17	17	17	15	17			
GS	16 1/4	19 1/2	19 1/4	19 1/2	17 1/2			
WL	10.4	8.8	9.2	9.2	10.0			
Cake	1/32	1/32	1/32	1/32	1/32			
PH	9.0	9.5	10.0	10.0	10.0			
CHI	4400	6400	6500	5100	4100			
Ca	40	20	20	40	20			
LCM	4	8	8	5	6			

OPERATOR Berexco LLC LOCATION 22.52' E SL + 1648' FWL
 LEASE Powell NO. 9-22 SEC 22 TWP. 29S RANG. 33W
 ELEVATION 2957 KB RTD 5631 COUN. Haskell STATE Kansas