

PI

15-025-20524

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GLECKLER EXHIBIT "A"

Black Dome Energy

1-A

GEOLOGIC TOPS

	<u>Kelly Bushing</u>	<u>(Subsea)</u>
Council Grove	2741'	(- 838')
Admire	3062'	(-1159')
Pennsylvanian Virgil	3258'	(-1355')
Waubannssee	3298'	(-1395')
Shawnee	3878'	(-1975')
Topeka	3896'	(-1993')
Deer Creek	4062'	(-2159')
Base of the Heebner	4239'	(-2336')
Toronto	4253'	(-2350')
Lansing	4424'	(-2521')
Marmaton	4852'	(-2949')
Oswego	4973'	(-3070')
Cherokee	5126'	(-3223')
Morrow Shale	5268'	(-3365')
Morrow Sand	5280'	(-3377')
St. Genevieve	5352'	(-3449')
Total Depth Logger	5408'	(-3505')

LOG INTERPRETATION

Deer Creek (4062'-4147')

38' sandstone with porosity greater than 8% with a maximum porosity of 19% and water saturation ranging from 98-100% using an R_w of .04 ohms.

Toronto (4253'-4368')

24' of limestone with porosity greater than 5% with a maximum porosity of 15% and water saturation ranging from 50-58% using an R_w of .04 ohms.

Lansing (4424'-4620')

86' of limestone with porosity greater than 5% with a maximum porosity of 19% and water saturation ranging from 44-98% using an R_w of .04 ohms.

(4682'-4701')

6' of oolitic limestone with a maximum porosity of 19% and water saturation calculating 53% using a cementation factor of 3 and an R_w of .04 ohms.

(4708'-4816')

16' of limestone with porosity greater than 5% with a maximum porosity of 14% and water saturation ranging from 59-80% using an R_w of .04 ohms.

RECEIVED
 COMPLETION OF WORK
 11/15/2011

LOG INTERPRETATION (Cont)

- Marmaton (4854'-4858')
4' of limestone with porosity greater than 5% with a maximum porosity of 19% and water saturation of 12% using an Rw of .04 ohms.
This zone was drill stem tested with gas to surface and recovering 120' oil. It is believed that this zone will produce commercial quantities of oil with some casinghead gas.
- Oswego (5071'-5103')
9' of limestone with porosity greater than 5% with a maximum porosity of 12% and water saturation calculating 80% using an Rw of .04 ohms.
- Morrow Sand (5280'-5306')
12' of sandstone with porosity greater than 8% with a maximum porosity of 10% and water saturation ranging from 35-43% using an Rw of .04 ohms.
This zone was drill stem tested with recovery of 1200' of gas cut mud. It is believed the lost circulation, which occurred after reaching total depth, went into this Morrow Sand. If further damage to the formation can be prevented, it is our belief that gas can be produced from this interval.

SAMPLE DESCRIPTION

- Deer Creek: 4062'-4147'
SS: Drty wht-gry, rndd-subrndd, f-vf grn, w srted, w cmted, non calc, tite, no fluor, no cut.
- Toronto: 4253'-4368'
LS: Wht-buff-crm-lt brn, blkylt, mod hd, dns, britt, f-vf xl, sl yel min fluor.
- Lansing: 4424'-4620'
LS: Crm-lt brn, blkylt, dns, mod hd, f-med xl, tr f-vf rndd amber ools, no fluor, no cut.
- 4682'-4701'
LS: Crm-lt brn, pred blkylt, occ plty, mod hd, dns, britt, f-med xl, sm occ, sl vis por, sl yel min fluor, no cut.
- 4708'-4816'
LS: Wht-crm, blkylt, hd, frm, dns, britt, f-vf xl, no vis por, pale yel min fluor, no cut.

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SAMPLE DESCRIPTION (Cont)

Marmaton: 4854'-4858'

LS: Drty brn, blk, sft-mod hd, f-med sl, good vis por, tr bright yel fluor on ind pieces, fast milky wht cut.

Oswego: 5071'-5103'

LS: Pred wht-crm, blk-plt, mod hd, dns, occ chlky, f-med xl, sl vis por, sl yel min fluor, no cut.

Morrow Sand: 5280'-5306'

SS: Wht & lt green, f-vf grn, rndd-sub rndd, mod hd, occ fri, w cmt, mod calc, tite, w srtd, v sl vis por, lt yel fluor in ind pieces, tr mod fast mlky wht cut.

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SHOWS

Sample: 4854'-4857'
5280'-5306'

Hot Wire: 5280'-5306'

Electrical Logs: 4854'-4857'
5280'-5306'

PROBABLE WATER RESISTIVITIES

Wolfcamp - St. Genevieve $R_w = .04$ ohms @ Formation Temperature

8-~~21~~³³-21WGENERAL INFORMATION (Cont)

Mud: Mud Company, Inc.
 Engineer: Dave Probst
 Approximate Mud Cost: \$9,800.00

Rig Specs:

Draw Works: Brewster N-42
 Power: 600 HP
 Pump #1: C250 IMSCO 5½"x15"
 Drill Pipe: 4"
 Tool Joint: 5½"
 Drill Collars: 6½"
 Tool Joint: 6½"

BIT RECORD

	<u>Mfgr.</u>	<u>Size</u>	<u>Type</u>	<u>Jets</u>	<u>Serial #</u>	<u>Depth Out</u>	<u>Ftge.</u>	<u>Hrs. Run</u>	<u>Wt.</u> <u>1000#</u>	<u>RPM</u>	<u>PP</u>	<u>Dev.</u>
Bit #1	HTC	12½"	X3A	3x13	NEW RT	818'	818'	8½	20	140	600	3/4 ^c
Bit #2	SEC	7 7/8"	S-3J	1x11 2x12	234917	1966'	1148'	10	30	130	1200	-
Bit #3	SEC	7 7/8"	S-86-F	1x11 2x12	105824	3948'	1982'	59	40	80	1200	-
Bit #4	HTC	7 7/8"	J-33	1x11 2x12	NE 339	5417'	1469'	80	40	70	1200	-

TESTS

DST #1 - (5239'-5303')

Morrow. Strong blow throughout test. Recovered 1200' gas cut mud.

I.H.P. - 2512 psi.
 I.F.P. - 403-435 psi/30 min. Some plugging action.
 I.S.I.P. - 1787 psi/60 min.
 F.F.P. - 532-645 psi/60 min. Some plugging action.
 F.S.I.P. - 1868 psi/120 min.
 F.H.P. - 2190 psi.
 B.H.T. - 120°F

DST #2 - (4797'-4874')

Marmaton. Strong blow throughout test. GTS in 20 min. Gauged 5.32 mcf. 1½" orifice @ 60 min. Recovered 120' of oil, 260' SO-GCM.

I.H.P. - 2367 psi.
 I.F.P. - 129-145 psi/30 min.
 I.S.I.P. - 1787 psi/60 min.
 F.F.P. - 161-193 psi/60 min.
 F.S.I.P. - 1852 psi/150 min.
 F.H.P. - 2319 psi.
 B.H.T. - 118°F