

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 30407

Name: Black Petroleum Co.

Address P.O. Box 12922

City/State/Zip Wichita, KS 67277-2922

Purchaser: _____

Operator Contact Person: Thomas E. Black

Phone (316) 729-8220

Contractor: Name: Murfin Drilling Company, Inc.

License: 30606

Wellsite Geologist: _____

Designate Type of completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

03-24-97 03-30-97 03-30-97
Spud Date Date Reached TD Completion Date

API NO. 15- 065-227800000

County Graham

W/2 - NW - SE - Sec. 9 Twp. 7S Rge. 23 E W

1980 Feet from S (circle one) Line of Section

2970 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Brant Well # 1

Field Name _____

Producing Formation _____

Elevation: Ground _____ Est. 2440 KB 5

Total Depth 3965' PBDT _____

Amount of Surface Pipe Set and Cemented at 263 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan D4A U.C. 12-16-97
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

RECEIVED
KANSAS CORP COM
MAY -2 11:36 AM '97

52-97

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Thomas E. Black

Title Owner / Pres. Date 4-19-97

Subscribed and sworn to before me this 19th day of April 1997.

Notary Public Karen J. Benbrook

Date Commission Expires 9-28-98

KAREN J. BENBROOK
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Expires 9-28-98

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Operator name Black Petroleum Co.

Lease Name Brant Well # 1

Sec. 9 Twp. 7S Rge. 23

East
 West

County Graham

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes (1)	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>ANHYDRITE</td> <td>2131</td> <td>+308</td> </tr> <tr> <td>BASE ANHYDRITE</td> <td>2163</td> <td>+276</td> </tr> <tr> <td>TOPEKA</td> <td>3476</td> <td>-1037</td> </tr> <tr> <td>HEEBNER SH.</td> <td>3680</td> <td>-1241</td> </tr> <tr> <td>TORONTO</td> <td>3705</td> <td>-1266</td> </tr> <tr> <td>LAUSING - K.C.</td> <td>3722</td> <td>-1283</td> </tr> <tr> <td>STARK SH.</td> <td>3886</td> <td>-1447</td> </tr> <tr> <td>BASE K.C.</td> <td>3914</td> <td>-1475</td> </tr> <tr> <td>ELTD</td> <td>3968</td> <td>-1529</td> </tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	2131	+308	BASE ANHYDRITE	2163	+276	TOPEKA	3476	-1037	HEEBNER SH.	3680	-1241	TORONTO	3705	-1266	LAUSING - K.C.	3722	-1283	STARK SH.	3886	-1447	BASE K.C.	3914	-1475	ELTD	3968	-1529
Name	Top	Datum																															
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Samples Sent to Geological Survey	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No																															
Cores Taken	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No																															
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No																															
List All E.Logs Run:	DENSITY-NEUTRON @ G. R. E. DUAL INDUCTION.																																

CASING RECORD <u> </u> New <u> </u> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"		263'	60/40 Poz, 3% CC, 2& gel	180	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose: _ Perforate _ Protect Csg _ Plug Back TD _ Plug Off Zone	Depth Top/Btm	Type of Cement	# Sacks Used	Type and Percent Additives

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
			Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run <u> </u> Yes <u> </u> No
---------------	------	--------	-----------	--------------------------------------

Date of First, Resumed Production, SWD or Inj. <u>D + A</u>	Producing Method _ Flowing _ Pumping _ Gas Lift _ Other
Estimated Production Per 24 Hours	Oil Bbls <u>N-A</u> Gas Mcf <u>N-A</u> Water Bbls Gas-Oil Ratio Gravity

Disposition of Gas: **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled _____
 (If vented, submit ACO-18.) Other (Specify) _____

FORM MUST BE TYPED

SIDE ONE

ORIGINAL COPY ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS OIL & GAS CONSERVATION DIVISION WELL COMPLETION FORM ACO-1 WELL HISTORY DESCRIPTION OF WELL AND LEASE

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Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD Plug Back PBTD Commingled Docket No. Dual Completion Docket No. Other (SWD or Inj?) Docket No.

03-24-97 Spud Date 03-30-97 Date Reached TD 03-30-97 Completion Date

API NO. 15-065-227800000

County: Graham

W/2 - NW - SE - Sec. 9 Twp. 7S Rge. 23 E

1980 Feet from N Line of Section

2970 Feet from E Line of Section

Footages Calculated from Nearest Outside Section Corner: NE, SE, NW or SW (circle one)

Lease Name: Brant Well # 1

Field Name:

Producing Formation:

Elevation: Ground Est. 2440 KB 5

Total Depth: 3965' PBTD

Amount of Surface Pipe Set and Cemented at: 263 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan D&A U.C. 12-16-97 (Data must be collected from the Reserve Pit)

Chloride content ppm Fluid volume bbls

Dewatering method used

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name License No.

Quarter Sec. Twp. S Rng.

County Docket No.

RECEIVED KANSAS CORP COM 5-2-97 1997 MAY -21 11:36

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All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Thomas E. Black

Title: Owner / Pres. Date: 4-19-97

Subscribed and sworn to before me this 19th day of April 1997.

Notary Public: Karen J. Benbrook

Date Commission Expires: 9-28-98

K.C.C. OFFICE USE ONLY Letter of Confidentiality Attached Wireline Log Received Geologist Report Received Distribution KCC SWD/Rep NGPA KGS Plug Other (Specify)

KAREN J. BENBROOK NOTARY PUBLIC STATE OF KANSAS My Appt. Expires 9-28-98

Operator name Black Petroleum Co.

Lease Name Brant Well # 1

Sec. 9 Twp. 7S Rge. 23

East

County Graham

West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes (1)	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums	<input type="checkbox"/> Sample	
Samples Sent to Geological Survey	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	ANHYDRITE	2131	+308
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	BASE ANHYDRITE	2163	+276
List All E.Logs Run:	DENSITY-NEUTRON @ G.R.E. DUAL INDUCTION.		TOPEKA	3476	-1037
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			TORONTO	3705	-1266
			LANRING -K.C.	3722	-1283
			STARK SH.	3886	-1447
			BASE K.C. ELTD	3914 3968	-1415 -1529

CASING RECORD <u> </u> New <u> </u> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"		263'	60/40 Poz, 3% CC, 2& gel	180	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose: _ Perforate _ Protect Csg _ Plug Back TD _ Plug Off Zone	Depth Top/Btm	Type of Cement	# Sacks Used	Type and Percent Additives

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record	
		(Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run	<u> </u> Yes <u> </u> No
---------------	------	--------	-----------	-----------	----------------------------

Date of First, Resumed Production, SWD or Inj.	<u>D & A</u>	Producing Method	<u> </u> Flowing <u> </u> Pumping <u> </u> Gas Lift <u> </u> Other
Estimated Production Per 24 Hours	Oil Bbbls <u>N-A</u>	Gas Mcf <u>N-A</u>	Water Bbbls Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: _____

OBIEMVI

ALLIED CEMENTING CO., INC. 5437

P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: R

3/29/97	SEC. 9	TWP 7S	RANGE 23W	CALLED OUT	ON LOCATION 4:30pm	JOB START 5:15pm	JOB FINISH 7:30pm
LEASE Brant	WELL# 1	LOCATION Hill City 6N 2 1/2 W 3E N		COUNTY Graham	STATE KS		

OLD OR NEW (Circle one)

CONTRACTOR Martin Dily Rig 3

TYPE OF JOB plug

HOLE SIZE 7 7/8 T.D. 3965

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

OWNER _____

CEMENT

AMOUNT ORDERED 190 40 6% gel 4 1/2 flowsec.

COMMON	<u>115</u>	@	<u>6 10</u>	<u>701.50</u>
POZMIX	<u>75</u>	@	<u>3 15</u>	<u>236.25</u>
GEL	<u>10</u>	@	<u>9 50</u>	<u>95.00</u>
CHLORIDE		@		
<u>Flowseal</u>	<u>50 #</u>	@	<u>1 15 #</u>	<u>57.50</u>
		@		
		@		
		@		
		@		
HANDLING	<u>190</u>	@	<u>1 05</u>	<u>199.50</u>
MILEAGE	<u>4 1/2 per sk per mile</u>			<u>516.00</u>

EQUIPMENT

177 Dave

PUMP TRUCK CEMENTER Glen

HELPER

BULK TRUCK

DRIVER

BULK TRUCK

160 DRIVER Brant

TOTAL 1806.55

REMARKS:

25 sk @ 2150

100 @ 1350

40 @ 315

10 @ 40 w/ plug

15 Rathole

5-2-1997
SERVICE

1997 MAY -2 AM 11:37

RECEIVED
KANSAS CEMENTING CO.

DEPTH OF JOB				
PUMP TRUCK CHARGE				
EXTRA FOOTAGE		@		
MILEAGE	<u>68</u>	@	<u>2 85</u>	<u>193.80</u>
PLUG	<u>Dry Hole</u>	@		<u>23.00</u>
		@		
		@		

TOTAL 766.00

CHARGE TO: Black Petroleum Company

STREET Box 12922

CITY Wichita STATE Kansas ZIP 67202

FLOAT EQUIPMENT

@ _____

@ _____

@ _____

@ _____

@ _____

TOTAL _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Charlie Van Relt

ALLIED CEMENTING CO., INC. 8417

Federal Tax I.D. # 15-065-22780-00-010

TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:

Russell

DATE <u>3-24-97</u>	SEC. <u>9</u>	TWP. <u>7</u>	RANGE <u>23</u>	CALLED OUT <u>8:00 PM</u>	ON LOCATION <u>10:00 PM</u>	JOB START <u>1:30 AM</u>	JOB FINISH <u>2:30 AM</u>
LEASE <u>BRANT</u>		WELL # <u>1</u>	LOCATION <u>Hill City 6 N 2 1/2 W 1/2 N</u>		COUNTY <u>GRAHAM</u>	STATE <u>KANSAS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR MURKIN DRUG Rig # 3

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. 263'

CASING SIZE 8 5/8 DEPTH 263'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 16 / BBL

EQUIPMENT _____

PUMP TRUCK CEMENTER Shawn

177 HELPER Will

BULK TRUCK _____

213 DRIVER Darin

BULK TRUCK _____

_____ DRIVER _____

OWNER Same

CEMENT AMOUNT ORDERED 180 SK 60 / 40 2% GEL 3% CC

COMMON	<u>108</u>	@	<u>6.10</u>	<u>658.80</u>
POZMIX	<u>72</u>	@	<u>3.15</u>	<u>226.80</u>
GEL	<u>3</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	@	<u>28.00</u>	<u>140.00</u>
_____	_____	@	_____	_____
_____	_____	@	_____	_____
_____	_____	@	_____	_____
_____	_____	@	_____	_____
_____	_____	@	_____	_____
_____	_____	@	_____	_____
HANDLING	_____	@	_____	<u>189.00</u>
MILEAGE	_____	@	_____	<u>449.60</u>
TOTAL				<u>1692.70</u>

REMARKS:

Cement Circulated

THANKS

SERVICE 5297

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE 68 @ 225 = 153.00

PLUG 8 5/8 WOODDEX @ _____ = 45.00

_____ @ _____

_____ @ _____

TOTAL 183.00

CHARGE TO: BLACK PETROLEUM CO.

STREET Box 12922

CITY Wichita STATE Kansas ZIP 67227-2922

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Keith VanDer

PRINTED NAME

RECEIVED
KANSAS CORPORATION
APR 1 1997

15-065-22780

BLACK PETROLEUM COMPANY

P.O. BOX 12922
WICHITA, KANSAS 67277-2922



OFFICE: 316-729-8220

THOMAS E. BLACK
President - Geologist

ORIGINAL

GEOLOGICAL REPORT

Thomas E. Black, Geologist

BRANT #1
W/2 NW SE
Section 9-7S-23W
Graham County, Kansas

RECEIVED
KANSAS CORP COMM
1997 MAY -2 A 11:36

CONTRACTOR: Murfin Drilling Co., Rig 3

COMMENCED: 3/24/97

COMPLETED: 3/29/97

ELECTRICAL SURVEYS: Log-tech - Induction
Density Neutron

ELEVATION: 2439 K.B.

SURFACE CASING: 256.54' 23# set @
263'

PRODUCTION: D & A

DRILL STEM TESTS: 1

CEMENT: 180 sx 60/40 Posmix, 3% cc, 2%
gel

Samples were saved and examined from 3400 feet to 3965 feet. One-foot drilling time was kept from 2075 feet to 3965 feet, R.T.D. All measurements are from Kelly Bushing. Pipe Strap @ 3965 feet. .33' feet short to board.

FORMATION TOPS

	<u>Samples</u>	<u>E-Log</u>	<u>Datum</u>
Top Anhydrite	2431'	2132'	+ 307
Base Anhydrite	2163'	2165'	+ 274
Topeka	3474'	3476'	-1037
Heebner Shale	3678'	3680'	-1241
Toronto	3703'	3705'	-1266
Lansing	3719'	3722'	-1283
Stark	3884'	3886'	-1447
Base of K.C.	3912'	3914'	-1475
ROTARY TOTAL DEPTH	3965'	3965'	-1526
E-LOG TOTAL DEPTH	3968'	3968'	-1529

15-065-22780-00-00

STRUCTURAL COMPARISON TO NEARBY WELLS

	Black Petroleum Co. Brant #1	Murfin(NE/4) #1 Seeger	Murfin (SE/4) #1 Brant
Base Anhydrite	+274	+275	+278
Lansing	-1283	-1276	-1278
"J" Zone	-1433	-1427	-1431

ZONES OF INTEREST - DRILL STEM TESTS

Topeka Limestone (3476-3680):	No shows of oil were encountered. Chalk & dense limestone were prevalent.
Lansing-K.C. "A" Zone (3722-40):	White, chalky limestone. No porosity or shows of oil.
"B" Zone (3750-60):	Dense limestone.
"C-D" Zone (3770-3780):	Limestone w/very scattered shows of dark residual oil in slight crystalline porosity. No odor.
"E,F,G" Zone (3783-3800):	Limestone: cream, chalky.
"H" Zone (3844-50):	Limestone: cream, fine crystalline to chalky, covered partly by DST #1.
"I" Zone (3859-70):	Shaly limestone.
"J" Zone (3872-86):	Limestone: White, oolitic, fair vuggy-intercrystalline porosity, small show free oil & slight odor. E-log calculates 17-21% porosity, and 100% to 61% water saturation.

DRILL STEM TEST #1 3846-80'

Open 75"
Weak to strong blow in 12" 1st opening
Weak to strong blow in 14" 2nd opening
Recovered 846' muddy saltwater
IFP 56-266 PSI FFP 45-239 PSI
ISIP 1363 PSI 30" FSIP 1352 PSI 60"
T = 112 degrees
Chlorides 44,000 PPM

"K & L" Zones: Dense chalky limestone

CONCLUSION

The #1 Brant was low structurally to the "2" Control wells. 7' low on the Lansing & 6' low on the Primary "J" Zone which tested all saltwater. No other zones carried oil shows judged worthy of additional testing. Electric log calculations were negative. It was herein recommended that the #1 Brant be plugged as dry & abandoned.

Respectfully submitted,

Thomas E. Black
Thomas E. Black, Geologist

RECEIVED
KANSAS CORP CO. #1
1997 MAY -2 A 11:30

15-065-22780-00-00

Black Petroleum Company
BRANT #1
W/2 NW SE
Section 9-7S-23W
Graham County, Kansas

ORIGINAL

<u>FROM</u>		<u>TO</u>	<u>DRILLING TIME</u>	<u>REMARKS</u>
2080	to	2090	1/2 - 1/2 - 1/2 - 1/2 - 1 - 1/2 - 1/2 - 1 - 1 - 1	
		2100	1/2 - 1/2 - 1/2 - 1/2 - 1 - 1 - 1/2 - 1/2 - 1/2 - 1/2	
		2110	1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/4 - 1/4 - 1/2 - 1/2 - 1/2	
		2120	1/4 - 1/4 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1 - 1/2 - 1/2	
		2130	1 - 1/2 - 1/2 - 1 - 1 - 1 - 1/2 - 1/2 - 1/2 - 1/2	
		2140	1 - 3 - 2 - 2 - 2 - 3 - 2 - 3 - 2 - 3	
		2150	2 - 3 - 2 - 3 - 2 - 2 - 3 - 2 - 2 - 2	
		2160	2 - 2 - 2 - 3 - 3 - 2 - 3 - 2 - 2 - 2	
		2170	2 - 2 - 3 - 1 - 1 - 1/2 - 1/2 - 1/2 - 1/2 - 1	
		2180	1/2 - 1/2 - 1 - 1/2 - 1/2 - 1/2 - 1/2 - 1 - 1/2 - 1/2	
		2190	1/2 - 1/2 - 1 - 1 - 1 - 1 - 1/2 - 1/2 - 1 - 1	
		2200	1/2 - 1/2 - 1 - 1 - 1 - 1 - 1/2 - 1/2 - 1/2 - 1/2	
3400	to	3410	1 - 2 - 1 - 1 - 2 - 1 - 1 - 1 - 1 - 1	
		3420	2 - 1 - 1 - 1 - 2 - 2 - 2 - 3 - 2 - 3	
		3430	2 - 3 - 3 - 2 - 3 - 2 - 1 - 3 - 2 - 2	
		3440	2 - 1 - 1 - 1 - 1 - 1 - 2 - 1 - 1 - 1	
		3450	2 - 1 - 2 - 1 - 1 - 1 - 1 - 1 - 2 - 2	
		3460	2 - 1 - 2 - 2 - 2 - 2 - 2 - 1 - 1 - 1	
		3470	1/2 - 1/2 - 1 - 1 - 1 - 2 - 1 - 2 - 1 - 1	
		3480	1 - 1 - 1 - 1 - 2 - 2 - 2 - 3 - 2 - 3	
		3490	2 - 3 - 3 - 3 - 2 - 3 - 3 - 2 - 3 - 2	
		3500	2 - 3 - 3 - 2 - 2 - 2 - 2 - 3 - 2 - 3	
		3510	2 - 2 - 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1	

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vis. 34 - wt. 9.2+

start premix tank

Black Petroleum Company
BRANT #1
 W/2 NW SE
 Section 9-7S-23W
 Graham County, Kansas

15-065-22780-00-00 ORIGINAL

<u>FROM</u>	<u>TO</u>	<u>DRILLING TIME</u>	<u>REMARKS</u>
	3520	2 - 1 - 1 - 1 - 3 - 2 - 3 - 3 - 2 - 3	
	3530	2 - 2 - 3 - 2 - 2 - 1 - 2 - 2 - 1 - 2	
	3540	1 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 3 - 3	3536 - premix in
	3550	2 - 1 - 1 - 1 - 1 - 2 - 2 - 2 - 1 - 1	
	3560	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
	3570	1 - 2 - 2 - 2 - 3 - 2 1/2 - 3 1/2 - 3 - 3 - 3	
	3580	2 - 1 - 2 - 2 - 1 - 2 - 2 - 1 - 1 1/2 - 1 1/2	
	3590	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	vis. 44 - wt. 9.4
	3600	1 - 1 - 2 - 2 - 1 - 2 - 2 - 1 1/2 - 1 1/2 - 2	
	3610	2 - 1 1/2 - 1 1/2 - 2 - 3 - 2 - 3 - 1 - 2 - 1 1/2	
	3620	1 1/2 - 1 1/2 - 2 1/2 - 1 - 2 - 1 - 2 - 2 - 2 - 2	vis. 43 - wt. 9.4
	3630	1 1/2 - 1 1/2 - 2 - 2 - 3 - 2 - 3 - 3 - 1 - 1 1/2	
	3640	2 1/2 - 3 - 2 - 3 - 1 - 1 1/2 - 1 1/2 - 1 - 1 - 2	
	3650	2 - 3 - 3 - 4 - 4 1/2 - 4 - 3 1/2 - 3 - 2 1/2 - 2 1/2	
	3660	3 - 3 - 3 - 3 - 1 1/2 - 2 - 1 1/2 - 2 - 2 1/2 - 1 1/2	
	3670	2 - 2 - 2 - 2 - 2 - 1 1/2 - 1 1/2 - 2 - 2 - 2 1/2	
	3680	2 1/2 - 2 - 2 - 2 - 2 - 2 1/2 - 2 1/2 - 3 - 2 - 1 1/2	
	3690	1 1/2 - 2 1/2 - 3 1/2 - 3 1/2 - 2 1/2 - 2 1/2 - 2 - 2 - 2 - 2	
	3700	2 1/2 - 2 1/2 - 2 1/2 - 2 1/2 - 3 - 3 - 2 1/2 - 2 1/2 - 2 - 2 1/2	
	3710	2 1/2 - 2 1/2 - 2 1/2 - 2 - 2 - 2 - 1 1/2 - 4 - 4 1/2 - 4	
	3720	4 - 4 - 4 1/2 - 4 - 3 - 3 - 3 - 2 1/2 - 2 1/2 - 3	
	3730	3 - 3 - 2 1/2 - 2 1/2 - 2 1/2 - 3 - 3 1/2 - 4 - 4 - 4	
	3740	4 - 3 1/2 - 3 1/2 - 3 - 3 - 3 - 3 1/2 - 3 1/2 - 4 - 4	

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ORIGINAL

Black Petroleum Company
BRANT #1
W/2 NW SE
Section 9-7S-23W
Graham County, Kansas

15-065-22780-00-00

<u>FROM</u>	<u>TO</u>	<u>DRILLING TIME</u>	<u>REMARKS</u>
	3750	4 - 4 - 4 - 4 - 3 - 2 - 3 - 4 - 3 - 2 1/2	
	3760	2 - 1 1/2 - 2 - 2 - 1 1/2 - 1 1/2 - 3 - 3 1/2 - 2 1/2 - 3	
	3770	2 1/2 - 2 - 2 - 3 - 2 1/2 - 3 1/2 - 3 - 2 1/2 - 3 1/2 - 3 1/2	
	3780	3 - 2 1/2 - 3 1/2 - 4 - 4 - 3 1/2 - 3 1/2 - 3 - 3 1/2 - 2	circ. 90" @ 3780
	3790	3 - 4 - 3 - 2 - 3 - 3 - 2 - 3 - 3 - 2	
	3800	2 - 1 - 2 - 2 - 2 - 4 - 3 - 4 - 3 - 3	
	3810	3 - 3 - 3 - 4 - 4 - 3 - 3 - 3 - 3 - 4	circ. 45" @ 3705 9.4-47 vis. 9.6 cc w.l.
	3820	3 - 4 - 4 - 3 - 4 - 4 - 4 - 3 - 4 - 4	
	3830	4 - 4 - 3 - 4 - 3 - 4 - 4 - 2 - 2 - 4	
	3840	4 - 3 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2	
	3850	2 - 2 - 2 - 3 - 3 - 2 - 3 - 4 - 3 - 3	
	3860	4 - 4 - 4 - 3 - 4 - 4 - 3 - 4 - 4 - 4	
	3870	3 - 4 - 3 - 4 - 3 - 4 - 3 - 3 - 4 - 4	
	3880	3 - 3 - 2 - 2 - 2 - 2 - 1 - 5 - 6 - 6	DST #1 @ 3844-80 Re-run bit
	3890	3 1/2 - 3 1/2 - 4 - 4 - 4 - 4 1/2 - 4 1/2 - 5 - 5 - 5	
	3900	4 - 3 - 3 - 3 - 3 - 3 - 4 - 4 - 4 - 4	
	3910	5 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 1/2 - 3 1/2	
	3920	3 1/2 - 3 - 3 1/2 - 3 - 2 - 2 - 2 - 2 - 1	
	3930	1 - 1 1/2 - 1 1/2 - 1 - 1 - 1 - 2 - 1 - 1 - 1	
	3940	2 - 1 - 2 - 1 - 1 - 1 - 1 - 2 - 1 - 2	
	3950	2 - 3 - 2 - 2 - 3 - 3 - 3 - 3 - 2 - 1	

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Black Petroleum Company
BRANT #1
W/2 NW SE
Section 9-7S-23W
Graham County, Kansas

<u>FROM</u>	<u>TO</u>	<u>DRILLING TIME</u>	<u>REMARKS</u>
	3960	2 - 1 - 2 - 1 - 2 - 2 - 2 - 3 - 3 - 3	
	3965	3 - 3 - 4 - 3 - 4	circ. 90", short trip, circ. 60". Strap pipe, ran E-log P.S. = short .33'

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