



KANSAS CORPORATION COMMISSION 1065165
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34506
Name: Empire Energy E&P, LLC
Address 1: 17 ARENTZEN BLVD, STE 203
Address 2: _____
City: CHARLEROL State: PA Zip: 15022 + _____
Contact Person: Rob Kramer
Phone: (316) 313-4395
CONTRACTOR: License # 33493
Name: American Eagle Drilling LLC
Wellsite Geologist: Jim Musgrove
Purchaser: Coffeyville Resources

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:
Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>07/06/2011</u>	<u>07/11/2011</u>	<u>07/30/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26156-00-00

Spot Description: _____
S2 SE SE NE Sec. 18 Twp. 11 S. R. 17 East West
2572 Feet from North / South Line of Section
330 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Ellis
Lease Name: KOLLMAN Well #: 15

Field Name: Bemis-Shutts

Producing Formation: Arbuckle

Elevation: Ground: 1831 Kelly Bushing: 1836

Total Depth: 3520 Plug Back Total Depth: 3423

Amount of Surface Pipe Set and Cemented at: 1077 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

(Data must be collected from the Reserve Pit)

Chloride content: 16000 ppm Fluid volume: 240 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Gerriso Date: 10/20/2011



1065165

Operator Name: Empire Energy E&P, LLC Lease Name: KOLLMAN Well #: 15
 Sec. 18 Twp. 11 S. R. 17 East West County: Ellis

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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	12.25	8.625	23	1077	60/40 A/poz	450	3% CaCl ₂ , 2% Gel
Production	7.875	5.5	14	3444	Class A common	225	10% NaCl, 2% gel, 5#/sk gilsonite, 1/4 #

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	3402-3403		3402-3403
	CIBP		3394
4	3384-3385		3384-3385

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3394</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>07/30/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
Estimated Production Per 24 Hours	Oil Bbls. <u>12</u> Gas Mcf <u> </u> Water Bbls. <u>615</u> Gas-Oil Ratio <u> </u> Gravity <u>31</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>3384-3385</u>
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Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	KOLLMAN 15
Doc ID	1065165

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density/Neutron
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	KOLLMAN 15
Doc ID	1065165

Tops

Name	Top	Datum
Anhydrite	1082	+754
Topeka	2774	-938
Heebner	3004	-1168
Toronto	3023	-1187
Lansing	3046	-1210
Base Kansas City	3293	-1457
Simpson Dolomite	3316	-1480
Arbuckle	3334	-1498



PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 127830

Invoice Date: Jul 8, 2011

Page: 1

Voice: (785) 483-3887

Fax: (785) 483-5566

Bill To:
Empire Energy c/o Randy Weigel P O Box 187 Plainville, KS 67663

Customer ID	Well Name# or Customer P.O.	Payment Terms	
EpiEne	Kollman #15	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	Jul 8, 2011	8/7/11

Quantity	Item	Description	Unit Price	Amount
270.00	MAT	Class A Common	16.25	4,387.50
180.00	MAT	Pozmix	8.50	1,530.00
7.00	MAT	Gel	21.25	148.75
14.00	MAT	Chloride	58.20	814.80
471.00	SER	Handling	2.25	1,059.75
30.00	SER	Mileage 471 sx @ .11 per sk per mi	51.81	1,554.30
1.00	SER	Surface	1,925.00	1,925.00
60.00	SER	Pump Truck Mileage	7.00	420.00
60.00	SER	Light Vehicle Mileage	4.00	240.00
1.00	EQP	8.5/8 Baffle Plate	84.00	84.00
1.00	EQP	8.5/8 Rubber Plug	79.00	79.00
1.00	CEMENTER	Shane Poche		
1.00	OPER ASSIST	Nick Williams		
1.00	OPER ASSIST	Mark Radke		

9208
APPROVED AUG 08 2011
Randy Weigel
RJK

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2448.62

ONLY IF PAID ON OR BEFORE
Aug 2, 2011

Subtotal	12,243.10
Sales Tax	443.78
Total Invoice Amount	12,686.88
Payment/Credit Applied	
TOTAL	12,686.88

RECEIVED AUG 08 2011

ALLIED CEMENTING CO., LLC. 035907

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE JINT: Rusick

DATE <u>7/2/11</u>	SEC. <u>18</u>	TWP. <u>11</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00 A</u>	JOB FINISH <u>6:00 A</u>
LEASE <u>Kollmar</u>	WELL # <u>18</u>	LOCATION <u>Days N to Board</u>	COUNTY <u>Ellis</u>			STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>3.5 E Sink</u>				

CONTRACTOR American Eagle Co #2 OWNER _____

TYPE OF JOB Surface Sd

HOLE SIZE 12 1/4 T.D. 1050' CEMENT AMOUNT ORDERED 450 9/2 32 CC

CASING SIZE 5 1/2 DEPTH 1079.67 28.64

TUBING SIZE DEPTH _____

DRILL PIPE DEPTH _____

TOOL DEPTH _____

PRES. MAX MINIMUM _____

MEAS. LINE SHOE JOINT 42 94

CEMENT LEFT IN CSG. 42 94

PERFS. _____

DISPLACEMENT 66 000

EQUIPMENT _____

PUMP TRUCK CEMENTER Steve

417 HELPER Mark

BULK TRUCK _____

481 DRIVER Mark

BULK TRUCK _____

DRIVER _____

HANDLING 471 @ 2.25 1059.75

MILEAGE 11/5/10 @ _____ 1554.30

TOTAL 9495.10

REMARKS:

Add Plate 1036.72

Mix 450 sfs

Cement Circulated

Cement 280 ps

CHARGE TO: Empire

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 1925

EXTRA FOOTAGE @ _____

MILEAGE 6.0 @ 7.00 420.00

MANIFOLD 6.1 @ 41.00 240.00

TOTAL 2585.00

PLUG & FLOAT EQUIPMENT

@ _____

@ _____

Add Plate @ _____ 84.00

5/2 Rubber M @ _____ 79.00

TOTAL 163.00

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE Steve

Thanks!

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.



PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 127831

Invoice Date: Jul 12, 2011

Page: 1

Voice: (785) 483-3887

Fax: (785) 483-5566

Bill To:

Empire Energy
c/o Randy Weigel
P O Box 187
Plainville, KS 67663

Customer ID	Well Name# or Customer P.O.	Payment Terms	
EmpiEne	Kollman #15	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Russell	Jul 12, 2011	8/11/11

Quantity	Item	Description	Unit Price	Amount
261.00	MAT	Class A Common	16.25	4,241.25
24.00	MAT	Pozmix	8.50	204.00
6.00	MAT	Gel	21.25	127.50
19.00	MAT	Salt	23.95	455.05
1,425.00	MAT	Gilsonite	0.89	1,268.25
71.00	MAT	Flo Seal	2.70	191.70
338.00	SER	Handling	2.25	760.50
30.00	SER	Mileage 338 sx @.11 per sk per mi	37.18	1,115.40
1.00	SER	Production String	2,225.00	2,225.00
60.00	SER	Pump truck Mileage	7.00	420.00
60.00	SER	Light Vehicle Mileage	4.00	240.00
1.00	EQP	5.5 AFU Float Shoe	245.00	245.00
10.00	EQP	5.5 Centralizer	34.00	340.00
2.00	EQP	5.5 Basket	236.00	472.00
1.00	EQP	5.5 Latch Down Plug	194.00	194.00
1.00	CEMENTER	Shane Poche		
1.00	EQUIP OPER	Ron Bennett		
1.00	OPER ASSIST	Tony Pfannenstiel		
1.00	OPER ASSIST	Mark Radke		

9208
APPROVED AUG 08 2011
Randy Weigel
RSL

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2499.93

ONLY IF PAID ON OR BEFORE
Aug 6, 2011

Subtotal	12,499.65
Sales Tax	487.54
Total Invoice Amount	12,987.19
Payment/Credit Applied	
TOTAL	12,987.19

RECEIVED AUG 08 2011

ALLIED CEMENTING CO., LLC. 035914

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT
Russell

DATE <u>7/22/01</u>	SEC. <u>18</u>	TWP. <u>11</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30 P</u>	JOB FINISH <u>2:30 P</u>
LEASE <u>Kollman</u>		WELL # <u>15</u>		LOCATION <u>Hwy N + River Rd</u>		COUNTY <u>ETLE</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>3 1/2 E S. 1/4</u>			

CONTRACTOR <u>American Eagle Rig # 2</u> TYPE OF JOB <u>Production String</u> HOLE SIZE <u>7 7/8</u> T.D. <u>3520'</u> CASING SIZE <u>5 1/2</u> 14" DEPTH <u>3444.90</u> TUBING SIZE _____ DEPTH _____ DRILL PIPE _____ DEPTH _____ TOOL _____ DEPTH _____ PRES. MAX _____ MINIMUM _____ MEAS. LINE _____ SHOE JOINT <u>4397</u> CEMENT LEFT IN CSG. <u>4397</u> PERFS. _____ DISPLACEMENT <u>82,98661</u>	OWNER _____ CEMENT AMOUNT ORDERED <u>60 1/4 48661</u> <u>5# Gilsomite / 1/4 1/2 48 PL.</u> <u>225' Com 1025' 5# / Gilsomite / 1/4 2861</u> <u>1/4 2861</u> COMMON <u>261</u> @ <u>16.25</u> <u>4241.25</u> POZMIX <u>24</u> @ <u>8.50</u> <u>204.00</u> GEL <u>6</u> @ <u>21.25</u> <u>127.50</u> CHLORIDE _____ @ _____ ASC _____ @ _____ <u>Salt 19</u> @ <u>23.95</u> <u>455.05</u> <u>Gilsomite 1425#</u> @ <u>1.89</u> <u>1268.25</u> <u>Flo Seal 71#</u> @ <u>2.70</u> <u>191.70</u> _____ @ _____ _____ @ _____ _____ @ _____ HANDLING <u>338</u> @ <u>2.25</u> <u>760.50</u> MILEAGE <u>111.54/mi</u> @ _____ <u>1115.40</u> TOTAL <u>8363.65</u>
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EQUIPMENT

PUMP TRUCK CEMENTER <u>Shane</u>
<u>492</u> HELPER <u>Bob</u>
BULK TRUCK _____
<u>473</u> DRIVER <u>Tony</u>
BULK TRUCK _____
<u>375</u> DRIVER <u>Mark</u>

REMARKS:
Rot Hole 30' to Insert 3400.92
Run Pipe to Bottom - 5' to
Circulation Mixed 30' to
Scavenger (Cement Tail)
int 225' Com - Washed pump +
Water Displaced 82,98661
Conducted @ 1800 psi /
Block Halted.

SERVICE

DEPTH OF JOB _____	PUMP TRUCK CHARGE _____	2225.00
EXTRA FOOTAGE _____ @ _____	MILEAGE <u>60</u> @ <u>7.00</u>	<u>420.00</u>
MANIFOLD _____ @ _____	<u>60</u> @ <u>4.00</u>	<u>240.00</u>
_____ @ _____		
TOTAL		<u>2885.00</u>

CHARGE TO: Empire Energy
 STREET: _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>AV - Float Stop</u>	@	<u>245.00</u>
<u>RR 10 - Centrifuge</u>	@	<u>34.00 - 340.00</u>
<u>Red 2 - Baskets</u>	@	<u>236.00 - 472.00</u>
<u>Card down</u>	@	<u>194.00</u>
_____ @ _____		
TOTAL		<u>1251.00</u>

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Rickey Papp
 SIGNATURE Rickey Papp

JAMES C. MUSGROVE

Petroleum Geologist
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Empire Energy E & P, LLC
Kollman #15
S/2-SE-SE-NE (2572' FNL & 330' FEL)
Section 18-11s-17w
Ellis County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: American Eagle Drilling Company (Rig #3)
Commenced: July 6, 2011
Completed: July 11, 2011
Elevation: 1836' K.B; 1834 D.F; 1831' G.L.
Casing program: Surface; 8 5/8" @ 1077'
Production; 5 1/2" @ 3519'
Sample: Samples saved and examined 2700' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2700 ft to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: None.
Electric Log: By Superior Well Services; Dual Induction, Compensated Neutron/Density, Porosity Log and Sonic Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	1082	+754
Base Anhydrite	1116	+720
Topeka	2774	-938
Heebner	3004	-1168
Toronto	3023	-1187
Lansing	3046	-1210
Base Kansas City	3293	-1457
Simpson Dolomite	3316	-1480
Arbuckle	3334	-1498
Rotary Total Depth	3520	-1684
Log Total Depth	3520	-1684

(All tops and zones corrected to Electric Log measurements).

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

2801-2812' Limestone; cream, white, fossiliferous, chalky, fair porosity, trace brown and dark gray stain, trace of free oil and questionable odor in fresh samples.

2960-2969' Limestone; tan, finely crystalline, dolomitic, fair pinpoint porosity, few fine vuggy type porosity, poor stain, trace of free oil and no odor in fresh samples.

TORONTO SECTION

3013-3022' Limestone; white, finely crystalline, chalky, poorly developed porosity, trace white fossiliferous, chert.

LANSING SECTION

3047-3091' Limestone; cream, white, chalky, scattered pinpoint porosity, trace golden brown stain, no show of free oil and no odor in fresh samples.

3054-3069' Limestone; white/gray, oolitic, fossiliferous, chalky, poorly developed porosity, gray stain, no show of free oil and no odor in fresh samples.

3085-3092' Limestone; white, gray, slightly fossiliferous, chalky, poor porosity, questionable stain, no show of free oil, plus gray and white chert.

3098-3106' Limestone; white, cream, medium crystalline, chalky, poor to fair porosity, no shows.

3120-3127' Limestone; gray, medium crystalline, fossiliferous, scattered porosity, golden brown stain, trace of free oil and faint odor in fresh samples.

3132-3134' Limestone; as above.

3138-3144' Limestone; white, fossiliferous, fair fossil cast porosity, few oolitic, fair vuggy porosity, fair stain and saturation, show of free oil and faint odor in fresh samples.

3180-3188' Limestone; cream, white, fine and medium crystalline, fossiliferous, brown stain, show of free oil and questionable odor in fresh samples.

3190-3196' Limestone; cream, white, as above, black stain.

3206-3220' Limestone; white, gray, oolitic, good porosity, brown to light brown stain, show of free oil and questionable odor in fresh samples.

3250-3256' Limestone; gray, oolitic, chalky, golden brown stain, trace of free oil and odor samples broken.

3270-3282' Limestone; gray, white, fossiliferous/oolitic, chalky, no shows.

SIMPSON SECTION

3316-3323' Dolomite; green tinted, fine and medium crystalline, few sucrosic, poor porosity, no shows.

ARBUCKLE SECTION

3335-3341' Dolomite; tan, sucrosic, fair intercrystalline and pin point type porosity, brown and golden brown stain and saturation, show of free oil and good odor in fresh samples.

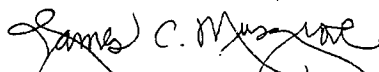
- 3346-3360' Dolomite; as above, plus white/gray and cream, medium crystalline, dolomite, fair intercrystalline porosity, brown and golden brown stain and saturation, show of free oil and fair to good odor in fresh samples.
- 3360-3370' Dolomite; as above, few sparry calcite cement, good stain and saturation, show of free oil and faint odor in fresh samples.
- 3370-3380' Dolomite; gray and white, fine and medium crystalline, sucrosic, fair porosity, brown stain, trace of free oil and faint odor in fresh samples.
- 3385-3395' Dolomite; as above, sub oomoldic, plus gray and white chert, trace brown stain.
- 3395-3410' Dolomite; tan and gray, pink, scattered porosity, trace gray and black stain, no show of free oil, trace iron pyrite.
- 3410-3420' Dolomite; as above, black stain, no show of free oil and faint odor in fresh samples.
- 3420-3440' Dolomite; gray, cream, medium crystalline, scattered porosity, no shows.
- 3440-3450' Dolomite; gray, white and tan, medium crystalline, fair intercrystalline porosity, plus white chert, no shows.
Dolomite; tan, brown, medium and coarse crystalline, fair porosity, no shows.
- 3450-3470' Dolomite; as above, plus gray opaque chert.
- 3470-3500' Dolomite; gray, white, medium crystalline, fair to good intercrystalline porosity, plus amber chert.
- 3500-3520' Dolomite; as above, plus pink fine and medium crystalline, dolomite, plus iron pyrite, no shows.

Rotary Total Depth 3520
Log Total Depth 3520

Recommendations:

5 1/2" production casing was set and cemented.

Respectfully submitted;


James C. Musgrove,
Petroleum Geologist

