

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34315
Name: Kansas Oil Resources LLC.
Address 1: 11944 west 95th st. suite 222
Address 2: _____
City: Shawnee Mission State: Ks. Zip: 66215 + _____
Contact Person: Don Kirk
Phone: (816) 210-8926
CONTRACTOR: License # ~~33237~~ 33704
Name: A%A Discovery
Wellsite Geologist: W. Scott Alberg
Purchaser: _____

Designate Type of Completion:
 New Well _____ Re-Entry _____ Workover _____
 Oil _____ SWD _____ SIOW _____
_____ Gas _____ ENHR _____ SIGW _____
_____ CM (Coal Bed Methane) _____ Temp. Abd. _____
_____ Dry _____ Other _____
(Core, WSW, Expl., Cathodic, 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 _____
_____ Plug Back: _____ Plug Back Total Depth _____
_____ Commingled _____ Docket No.: _____
_____ Dual Completion _____ Docket No.: _____
_____ Other (SWD or Enhr.?) _____ Docket No.: _____
March 31 2010 April 11 2010
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 109-20898-00-00
Spot Description: 330' north 330'east of southwest corner
SW -SW -SW - Sec. 15 Twp. 12 S. R. 32 East West
330 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: Logan
Lease Name: Younkin Well #: 2
Field Name: Wildcat
Producing Formation: Johnson
Elevation: Ground: 3007 Kelly Bushing: 3012
Total Depth: 4729 Plug Back Total Depth: 4704
Amount of Surface Pipe Set and Cemented at: 236 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: _____ ppm Fluid volume: _____ bbls
Dewatering method used: _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 of 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: [Signature]
Title: fieldman Date: 10-15-10
Subscribed and sworn to before me this 15th day of October,
20 10.
Notary Public: [Signature]
Date Commission Expires: 08-06-2011

NOTARY PUBLIC
STATE OF KANSAS
RANCE E. AMES
My Appt. Exp. 08-06-2011

KCC Office Use ONLY
 Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
UIC Distribution
AH 2-Dlg - 11/1/10

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Operator Name: Kansas Oil Resources LLC. Lease Name: Younkin Well #: 2
 Sec. 15 Twp. 12 S. R. 32 East West County: Logan

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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input 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 <i>(Submit Copy)</i> List All E. Logs Run:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Anhydrite</td> <td>2523</td> <td>+489</td> </tr> <tr> <td>Heebner</td> <td>3974</td> <td>-962</td> </tr> <tr> <td>Lansing</td> <td>4018</td> <td>-1006</td> </tr> <tr> <td>Base of Kansas City</td> <td>4305</td> <td>-1293</td> </tr> <tr> <td>Johnson</td> <td>4572</td> <td>-1560</td> </tr> <tr> <td>Mississippian</td> <td>4646</td> <td>-1634</td> </tr> <tr> <td>RTD</td> <td>4729</td> <td>-1717</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Anhydrite	2523	+489	Heebner	3974	-962	Lansing	4018	-1006	Base of Kansas City	4305	-1293	Johnson	4572	-1560	Mississippian	4646	-1634	RTD	4729	-1717
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RTD	4729	-1717																										

CASING RECORD <input 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 1/2"	85/8"	24#	236	Standard	160	
production	7 7/8"	5.5"	16.5#	4727	Reg.	500	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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
4	4671--4676	750 gal. 71/2% mud acid	
4	4636--4640	750 gal. 71/2% mud acid	
4	4617--4620	750 gal. 71/2% mud acid	
4	4584--4590	750 gal. 71/2% mud acid	
4	4002--4006	750 gal. 71/2% mud acid	

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

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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <div style="text-align: right; font-weight: bold; font-size: 1.2em;">RECEIVED</div>
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OCT 18 2010
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CHARGE TO:	Empire Exploration LLC.
ADDRESS	
CITY, STATE, ZIP CODE	

TICKET
18439

PAGE	OF
1	1

SERVICE LOCATIONS 1. Ness City KS	WELL/PROJECT NO. 2	LEASE Younkin	COUNTY/PARISH Logan	STATE KS	CITY Ness City	DATE 4-1-10	OWNER
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input checked="" type="checkbox"/> SALES	CONTRACTOR A + A Drilling Co.	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO Oakley	ORDER NO.	
3.	WELL TYPE Oil	WELL CATEGORY Development	JOB PURPOSE Cement 8 3/8 Surface	WELL PERMIT NO.	WELL LOCATION Oakley, 9 1/2 S, W 17 N E...		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE Trk # 104	60				5.00	300.00
5765		1			Pump Charge Shallow Surface	1				750.00	750.00
581		1			Service Charge Cement	160				1.50	240.00
583		1			Drayage	469				1.00	469.80
325		1			Standard Cement	160				11.00	1760.00
278		1			Calcium Chloride	4 1/2				35.00	157.50
279		1			Bentonite Gel	3				20.00	60.00
290		1			Air	2				35.00	70.00
410		1			Top Plug	1				100.00	100.00

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LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X

DATE SIGNED: 4-1-10

TIME SIGNED: 1400

A.M.
 P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	3907 30
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?				TAX	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	
ARE YOU SATISFIED WITH OUR SERVICE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: Brett Laise APPROVAL: Thomas We...

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 4-1-10 PAGE NO.

CUSTOMER Empire Exploration WELL NO. 2 LEASE Yonkers JOB TYPE Cement 8 7/8 casing TICKET NO. 18439

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1400							On Location 8 7/8 20# TD 236'
	1415							Start 8 7/8 Casing
	1545							Break Circulation
	1600	5	5		✓		150	Pump Water Spacer
	1601	4 1/2			✓		150	Start Cement 160 sks @ 14.7 ppg
		4 1/2	36.5		✓		150	Cement Ramp to 15.0 ppg
	1615		39					Shut Down - Release Plug
	1615	5			✓		850	Start Displacement
		5	10.6		✓		400	Cement to Surface 15 sks top it
	1620		14.2				400	Shut Down - Shut in for 8 hrs
								Wash Truck J
	1700							Job Complete Thank you Brett, Dave & Lane

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JOB LOG

SWIFT Services, Inc.

DATE 7-11-10 PAGE NO. 7

CUSTOMER Energy Exploration WELL NO. #2 LEASE YOUNKIN JOB TYPE Cement Lining TICKET NO. 17491

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	12:45							DN location w/ float pump
	13:20							Start casing - 5 1/2 - 15.5 #/ft to 4727'
								Insert float shoe w/ auto ball
								Lat h. Down to 14' to 12" collar 5 T - 21'
								Cont. 1-2-4-6-8-10-12-14-17-18-53-55-90
								Cement Baskets - Jts 19-54-91
								D. Van Collar #54 @ 2172'
								Drop full up ball 5 Jts out
	15:10							Fin run Casing / Top / Lay down - Run landing J
	15:25							Rig start tie casing 20' at bottom
	16:00							Fin tie - back to tie
	16:02						150	Start 500 gal Mud / flush
		5	12				250	Start 20 BBL KCL flush
		10	32				250	Fin flushes - fill tanks
								Start 175 SKS standard EA-2 cut
	16:20							Fin cut. Wash out Pump / Lines
	16:22	8 1/2					325	Drop Lock Down Plug - Start Displ.
		8	110				300	60 BBL H ₂ O 452 Mud (-112)
		7 1/2	90				400	Caught cut
		6	100				550	Slow rate
							400	
	16:42		112				700	Plug down - Hold - Release - Hold
	16:45						1100	Drop D.V. Opening Down - Wash up P.T
	17:00	5	8				400	Open D.V. - with tie - Rig start tie
	18:30							Rig fin tie -
	18:35		8					Plug RT - 30 SKS 500 @ 12" at
								Flush 20 BBL KCL flush - Good circulation
	16:40	6 1/2					200	Start 225 SKS mud
			1100				150	Fin cut. - Tail run @ 12.5 - 15 #
								Drop D.V. Closing Plug
	19:10	8 7					200	Start Displ.
		5 1/2	49				400	Slow rate last 10 BBL
	19:20		59				600	Plug Down - D.V. Close - Hold
	19:30							Job complete - 50 SKS cut tie to Pit
								(Wash up / Leak cap)

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OCT 15 2010

Ken, Dave, Blaine + Jason



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 17481

CUSTOMER *Empire Exploration* WELL # *2 Younkin* DATE *9-11-10* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF									
325		2				Standard Cement	EA-2	175	SKs	11850	lbs	12.00	2100.00
276		2				Flocele		411	lbs			1.50	616.50
283		2				Salt		875	lbs			15	13125
284		2				Calseaf		823	lbs	9	SKs	30.00	270.00
285		2				CFR-1		83	lbs			4.00	332.00
330		2				SMD Cement		325	SKs	32260	lbs	15.00	4875.00
276		2				Flocele		82	lbs			1.50	123.00
581		2				SERVICE CHARGE							
583		2				MILEAGE CHARGE							
						TOTAL WEIGHT							
						LOADED MILES							
						CUBIC FEET							
						TON MILES							

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CONTINUATION TOTAL 10671.93



CHARGE TO:
Empire Exploration

ADDRESS

CITY, STATE, ZIP CODE

TICKET
17481

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SERVICE LOCATIONS 1. <i>Hays, Ks</i>	WELL/PROJECT NO. # 2	LEASE <i>YOUNKIN</i>	COUNTY/PARISH <i>Logan</i>	STATE <i>Ks</i>	CITY	DATE <i>1-11-10</i>	OWNER
2. <i>Ness City, Ks</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>A-1 A Drlg</i>	RIG NAME/NO. #1	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>S/Oakley, Ks</i>	ORDER NO.	
3.	WELL TYPE <i>oil</i>	WELL CATEGORY <i>infield</i>	JOB PURPOSE <i>Cement Linstriping</i>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113			80	mi	5.00	400.00
579		1			Pump Charge - Two Stage			1	ea	1750.00	1750.00
580		1			Additional Cir hours			2	hr	200.00	200.00
221		1			Liquid KCL			4	gal	25.00	100.00
281		1			Mud flush			500	gal	1.00	500.00
290		1			D-Air			6	gal	35.00	210.00
402		1			Centralizers			13	ea	55.00	715.00
403		1			Cement Packer			3	ea	200.00	600.00
407		1			Insert Flat Shoe w/ Auto Fill			1	ea	275.00	275.00
408		1			D.V. Tool			1	ea	2000.00	2000.00
417		1			D.V. Latch Down Plug & Baffle			1	ea	200.00	200.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

x *Thomas W Wiesner*

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	P.1 PAGE TOTAL	7550.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				P.2	10621.93
WE UNDERSTOOD AND MET YOUR NEEDS?				subtotal	18221.93
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Logan TAX 6.3%	825.13
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	19,047.06
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: *Tom Roman* APPROVAL _____

Thank You!

ALBERG PETROLEUM, LLC

W. Scott Alberg

Petroleum Geologist, KS Lic 54

609 Meadowlark Lane

Pratt, Kansas 67124

Geologist Report

April 12, 2010

Empire Exploration, LLC
1205 2nd Road
Damar, Kansas 67632

Younkin #2
SW SW SW
330' FSL & 330' FWL
Section 15-T12S-R32W
Logan County, Kansas
Anderson Drilling, Rig #1
March 31, 2010
April 11, 2010
GL 3007; KB 3012
All depths measured from Kelly
Bushing.
Surface: 8 5/8" set at 236'.
Production: 5 1/2" set @ 4704', Stage
Collar installed and cemented to
surface.
Samples saved from 3700' to Total
Depth.
One(1) foot drilling time recorded by
geolograph from surface to T.D.
None
Superior Well Services, DIL,
CDL/CNL, PE/Micro.
Trilobite, Three (3) Tests ran.

Contractor
Commenced
Completed
Elevations
Measurements

Casing Program

Samples

Drilling Time

Gas Detector
Electric Log

Formation Testing

FORMATION

ELECTRIC LOG DEPTH

SUBSEA DATUM

Anhydrite	2523	+489
Heebner Shale	3974	-962
Toronto	4001	-989
Lansing	4018	-1006
Base Kansas City	4305	-1293
Pawnee	4447	-1435
Ft. Scott	4484	-1472
Cherokee Shale	4496	-1484
Johnson Zone	4572	-1560
Mississippian	4646	-1634
RTD	4729	-1717

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All samples corrected to Electric Log Depths.

SAMPLE ANALYSIS, SHOWS OF OIL, ECT.

Toronto 4002 to 4006	Limestone, buff-white, finely crystalline, oolitic, trace show of oil, slight show of gas, faint odor, dull fluorescence, trace of inter granular porosity, OF POSSIBLE VALUE.
Lansing/Kansas City 'H Zone' 4174 to 4176	Limestone, cream, buff-white, finely crystalline, trace of a few vugs, trace of crystalline porosity, fair show of oil, strong odor, dull fluorescence, COVERED BY DST #1, OF POSSIBLE VALUE.
'J Zone' 4224 to 4229	Limestone, buff, finely crystalline, trace of vugular porosity, crystalline porosity, strong odor, fair show of oil, COVERED BY DST #1, OF POSSIBLE VALUE, CALULATES A LITTLE WET, BUT SHOW BE TESTED PRIOR TO ABANDONMENT.
Pawnee Limestone 4452 to 4456	Limestone, cream, buff-white, fossiliferous, trace of crystalline porosity, slightly chalky, dull fluorescence, no visible shows, no odor, abundant white cherts, OF NO VALUE.
Johnson Zone 4573 to 4590	Limestone, cream-white, tan, finely crystalline, slightly fossiliferous, trace of vugular porosity, trace of crystalline porosity, fair odor, light show of oil, dull fluorescence, COVERED BY DST#2, OF NO VALUE, TIGHT.
Morrow 4617 to 4620 4636 to 4640	Sandstone, tan to clear, very fine grained, sub-rounded to subangular, slightly friable, light show of oil. 2 nd Zone, as above with better show of oil in samples. COVERED BY DST #3, OF POSSIBLE COMMERCIAL VALUE.

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Mississippian ??
4673 to 4675

Sandstone, clear to white, fine grained, sub-rounded,
friable, no odor, no visible shows, LOG
CALULATES PRODUCTIVE, THIS ZONE
SHOULD BE PERFORATED AND TREATED.

DST RESULTS

DST #1

4144 to 4235

'H, I & J Zones

Times 30-60-60-60

IF- Strong blow, BOB 12 minutes

ISI- weak surface blow, died in 42 minutes

FF- Strong blow, BOB 14.5 minutes

FSI- weak surface blow throughout

IHP 2060#

IFP 23-148#

ISIP 1317#

FFP - 146-344#

FSIP 1295#

FHP 2038#

Recovery,

210' gas in pipe

60' gassy oil, 36 degree gravity

480' Oil cut watery mud (10% oil, 10% water, 80% mud)

150' MW (70% water, 30% mud)

DST #2

4520 to 4585

Johnson Zone

Times 30-30-30-30

IF- weak surface blow throughout

ISI- no blow

FF- no blow, flushed tool, weak surface surge, then died

FSI- no blow

IHP 2281#

IFP 19 to 20#

ISIP 88#

FFP 20-22#

FSIP 44#

FHP 2248#

Recovery,

10' Mud w/scum of oil

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DST #3
4584 to 4650
Morrow Zone
Times 30-60-60-60
IF- built to 6 inches
ISI- No blow back
FF- built to 4 inches
FSI- no blow back
IHP 2324#
IFP 16 to 36#
ISIP 1041#
FFP 37 to 56#
FSIP 866#
FHP 2312#
Recovery,
5' free oil, 30 degree gravity
25' MCGO (5% gas, 92% oil, 3% mud)
60' GOCWM (5% gas, 5% oil, 5% water, 85% Mud)

RECOMMENDATIONS:

In review of DST data, sample shows, and log calculations it was recommended 5 1/2" production casing be set to further evaluate the potential pay zones in this well. The following zones should be perforated and tested;


- | | | |
|----|----------------------------|--|
| 1. | Morrow Sand& Mississippian | 4673 to 4675
4636 to 4640
4617 to 4620 |
| 2. | H Zone | 4174 to 4176 |
| 3. | Toronto | 4002 to 4006 |

Prior to abandonment

- | | | |
|----|--------|--------------|
| 1. | J Zone | 4224 to 4229 |
|----|--------|--------------|

The above zones should be perforated and treated.

Respectfully,


W. Scott Alberg, P.G. #54

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