

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

RECEIVED
8-22-02
AUG 22 2002

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 3080
Name: Jack Explooration, Inc.
Address: P.O. Box 1279
City/State/Zip: Sulphur, OK 73086
Purchaser: Western Gas Resources
Operator Contact Person: James R. Jack
Phone: (580) 622-2310
Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: Mike Pollok ✓

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: _____
Original Comp. Date: _____ Original Total Depth: _____
Deepening Re-perf. Conv. to Enhr./SWD
Plug Back Plug Back Total Depth
Commingle Docket No.
Dual Completion Docket No.
Other (SWD or Enhr.?) Docket No.

06/10/02 06/17/02 07/03/02
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 007-22693-00-00
County: Barber Co., KS
SE NW NW Sec. 4 Twp. 35 S. R. 14 ☐ East ☒ West
1160 feet from S / N (circle one) Line of Section
1170 feet from E / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Benson Well #: 1-4
Field Name: Aetna Gas Area
Producing Formation: Mississippian
Elevation: Ground: 1515' Kelly Bushing: 1526'
Total Depth: 5000' Plug Back Total Depth: 4981'
Amount of Surface Pipe Set and Cemented at 253 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 See 1 BH 8-26-02
(Data must be collected from the Reserve Pit)
Chloride content 30000 ppm Fluid volume 500 bbls
Dewatering method used Dewatering & backfill
Location of fluid disposal if hauled offsite:
Operator Name: Oil Producers Co. #8061
Lease Name: May License No.: 13-3
Quarter C NW Sec. 13 Twp. 35 S. R. 16W ☐ East ☐ West
County: Comanche, OK Docket No.: D27726

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: James R. Jack
Title: President Date: 8-5-02
Subscribed and sworn to before me this 5th day of August,
2002.
Notary Public: Kevin Aaron
Date Commission Expires: March 12, 2006

KCC Office Use ONLY

NO Letter of Confidentiality Attached
If Denied, Yes ☐ Date: _____
✓ Wireline Log Received
✓ Geologist Report Received
UIC Distribution

Operator Name: Jack Exploration, Inc. Lease Name: Benson Well #: 1-4
 Sec. 4 Twp. 35 S. R. 14 ☐ East ☒ West County: Barber Co., KS

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 ☐ Yes ☒ No
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run ☒ Yes ☐ No
 (Submit Copy)

List All E. Logs Run:

Dual Induction, Microlog, Compensated Density/Neutron
 PE Log

☐ Log Formation (Top), Depth and Datum ☐ Sample
 Name Top Datum

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
Conductor		20"		58'			
Surface	12 1/4"	8 5/8"	24#	253'	Class A	200	3% CC
Production	7 7/8"	4 1/2"	10.5#	4999'			

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
2 / ft	4874-4884	5,000 15% HCL	
2 / ft	4830-4850	62,000# Sd	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	4815	4815	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method			
		<input checked="" 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
		1,458,000	0		

Disposition of Gas

METHOD OF COMPLETION

Production Interval

☐ Vented ☒ Sold ☐ Used on Lease
 (If vented, Sumit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify)

ALLIED CEMENTING CO., INC.

10069

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67663

SERVICE POINT:

15-007-22693-0000

Mud Lodge, KS

DATE 6-10-02	SEC. 4	TWP. 35S	RANGE 14W	CALLED 9:00 PM	ON LOCATION 10 PM	JOB START 12:30 AM	JOB FINISH 12:30 AM
LEASE Banson	WELL # 1-4	LOCATION Hartner 11W, N on			COUNTY Barber	STATE KS	
OLD OR NEW (Circle one) <u>NEW</u> Prairie Dog Rd.							

CONTRACTOR <u>Duke #5</u>		OWNER <u>Jack Exploration, Inc</u>
TYPE OF JOB <u>Surface</u>		
HOLE SIZE <u>12 1/4</u>	T.D. <u>255'</u>	
CASING SIZE <u>8 5/8, 24"</u>	DEPTH <u>25.3</u>	
TUBING SIZE	DEPTH	
DRILL PIPE <u>4 1/2</u>	DEPTH <u>25.5</u>	
TOOL	DEPTH	
PRES. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT <u>42.2'</u>	
CEMENT LEFT IN CSG. <u>42.2'</u>		
PERFS.		
DISPLACEMENT <u>13 1/2 bbl Fresh h₂O</u>		
EQUIPMENT		
PUMP TRUCK # <u>265</u>	CEMENTER <u>Mike Rucker</u>	
	HELPER <u>Steve Davis</u>	
BULK TRUCK # <u>364</u>	DRIVER <u>Larry Dreiling</u>	
BULK TRUCK #	DRIVER	
CEMENT AMOUNT ORDERED <u>2005x class A + 3% bcc</u>		
COMMON <u>A 200</u>	@ <u>6.65</u>	<u>1330.00</u>
POZMIX	@	
GEL	@	
CHLORIDE <u>7</u>	@ <u>30.00</u>	<u>210.00</u>
	@	
	@	
	@	
	@	
HANDLING <u>207</u>	@ <u>1.10</u>	<u>227.70</u>
MILEAGE <u>207 X 35</u>	<u>.04</u>	<u>289.80</u>
TOTAL		<u>2057.50</u>

REMARKS:

SERVICE

<u>Pipe on bottom break Circulation</u>	DEPTH OF JOB <u>253'</u>
<u>Start Cement Class A + 3% bcc (2005x)</u>	PUMP TRUCK CHARGE <u>520.00</u>
<u>@ 15.6 weight Stop Pumps Release</u>	EXTRA FOOTAGE @
<u>Plug Start Displ @ 13 1/2 bbl Displacement</u>	MILEAGE <u>35</u> @ <u>3.00</u> <u>105.00</u>
<u>Pump Plug 200-300psi bleed-off to</u>	PLUG <u>L.W.P. 8 5/8"</u> @ <u>45.00</u> <u>45.00</u>
<u>200psi Shut-in Cement Did</u>	
<u>Circulate Class Cement to pit</u>	
	TOTAL <u>670.00</u>

CHARGE TO: Jack Exploration, Inc

STREET

CITY Freedom STATE OKLA ZIP

FLOAT EQUIPMENT

<u>8 5/8 Gemco</u>	
<u>1- Baffle Plate</u>	@ <u>45.00</u> <u>45.00</u>
<u>1- Centralizer</u>	@ <u>55.00</u> <u>55.00</u>
	@
	@
	@
	@
TOTAL <u>100.00</u>	

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 2827.50DISCOUNT 282.75 IF PAID IN 30 DAYS2544.75

SIGNATURE

Ala. Walsen

PRINTED NAME

ALLIED CEMENTING CO., INC. 09871

Federal Tax I.D.# 48-0727860

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

15-007-22693-0000

SERVICE POINT:

Medicine Lodge

DATE 6-18-02	SEC. 4	TWP. 35S	RANGE 14W	CALLED OUT 3:00 pm	ON LOCATION 4:30 pm	JOB START 9:00 pm	JOB FINISH 9:35 pm
LEASE <u>Benson</u>	WELL# 1-4	LOCATION <u>Hartman KS, Hwy to Paris</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)				Dog Rd, N/ to location			

CONTRACTOR Duke #5
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5000'
 CASING SIZE 4 1/2 x 11.6 DEPTH 5003'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 1600 MINIMUM
 MEAS. LINE SHOE JOINT 15.02
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT 78 Bbls 21 KCL

EQUIPMENT

PUMP TRUCK CEMENTER Ant Bolding
 #360-302 HELPER Steve Davis
 BULK TRUCK
 #240- DRIVER
 BULK TRUCK
 # DRIVER

OWNER Jack Exploration, Inc.

CEMENT
 AMOUNT ORDERED
200 sq class H ASC + 500 sq class H FB seal
Chapra 8 Gal

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
200 sq H ASC	@	10.05	2010.00
8 Gal Chapra	@	22.90	183.20
1000 sq Kel-seal	@	-50	500.00
50 sq FB-seal	@	1.40	70.00
HANDLING	@	1.10	281.60
MILEAGE	@	256 x .04 x 35	358.40

TOTAL 3403.20

REMARKS:

SERVICE

Run casing, Deep ball for float shoe
+ Break circulation, circulate for 30 min.
Pump 20 sq H ASC sealer cement
+ 150 sq H ASC + 500 sq FB seal
wash out pump + chime + Release plug.
Displace with 78 Bbls 21 KCL water.
Bump plug + Float held.

DEPTH OF JOB 5000'
 PUMP TRUCK CHARGE 1340.00
 EXTRA FOOTAGE @
 MILEAGE 35 @ 3.00 105.00
 PLUG @
 @
 @

TOTAL 1445.00CHARGE TO: Jack Exploration, Inc.

STREET

CITY FREEDOM STATE OKLA ZIP

FLOAT EQUIPMENT

1- AFV Float shoe	@	200.00
1- Latch Down plug	@	300.00
4- Spoolizers	@	237.00 948.00
3- Centralizers	@	45.00 135.00

TOTAL 1583.00

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.

SIGNATURE

Alan Watson

TAX

TOTAL CHARGE 6431.20DISCOUNT 643.12 IF PAID IN 30 DAYS

5788.08
ALAN WATSON
 PRINTED NAME



15-007-22693-0000
MAP EXPLORATION, INC.

ORIGINAL
MICHAEL ANTHONY POLLOK, PRES.

P.O. Box 106 ■ PURCELL, OKLAHOMA 73030
OFFICE 405/527-6038 ■ HOME 405/527-5200 ■ MOBILE 405/823-4493 ■ FAX 405/527-7629
■ E-MAIL: mapexpl@aol.com

**GEOLOGICAL REPORT
BENSON 1-4
SE/4 NW/4 NW/4 SECTION 4 - T35S - R14W
BARBER COUNTY, KANSAS**

RECEIVED
AUG 22 2002
8-22-02
KCC WICHITA

SUMMARY

The above captioned well was drilled to a total depth of 5,000 feet on June 17, 2002. A one-man mud-logging unit was on location from 3,500 feet to TD, with samples being analyzed from 3,800 feet to TD. The well was under the geological supervision of the undersigned from approximately 4,600 feet to TD. At TD, Reeves electric logs were run that consisted of Dual induction, Compensated Neutron - density and Micro-log. From data collected while drilling and analyzing, hydrocarbon shows were encountered in the Kansas City aged Hertha Limestone and the Mississippian Dolomite zones. The decision was made to set production casing and complete the well in the above mentioned zones.

HERTHA LIMESTONE

The Hertha Limestone was cut at 4,644 (-3100) feet. Samples were described as off-white to cream buff, very fine to fine crystalline, slightly sucrosic limestone, with a trace of intercrystalline, pinpoint and vugular porosity. A bright yellow fluorescence was observed along with a slow to good streaming cut and faint odor. A 140-unit gas kick was recorded on the gas chromatograph through a three-foot drilling break. Electric logs indicate a two-foot zone of 13% cross-plot porosity with 6 ohms of resistivity and two feet of positive micro-log separation. This zone should produce hydrocarbons and should be tested before the well is plugged and abandoned.

MISSISSIPPIAN

The Mississippian Detrital was encountered at 4,822 (-3278) feet. This zone was approximately 3-feet thick and very shaley with a slight show recorded on the gas chromatograph. Samples were described as cherts, reworked dolomites and limestones, with some consolidated sandstone, in a multicolored shale matrix. This zone is probably not worth completing at this time.

The top of the Mississippian Unconformity was topped at 4,834 (-3290) feet. Samples were described as off-white to cream tan, very fine to fine crystalline dolomite, with intercrystalline porosity. A 272-unit gas kick was recorded through an eight-foot drilling break. A fourteen-foot break was recorded below the above mentioned zone. Samples were described as tan to light brown fine crystalline, sucrosic dolomite with some pinpoint and vugular porosity being observed. A dull yellow fluorescence, good streaming cut, live oil staining and very good odor was observed. Electric logs indicate three porosity zones with the upper zone consisting of 14-feet of 18% porosity and 8 feet of positive micro-log separation. The middle porosity zone averages 13% porosity through 14 feet.

A lower dolomite zone was encountered at 4,874 and was approximately ten-foot thick with scattered micro-log separation through an average porosity of 12%.

ELECTRIC LOG TOPS

	JACK BENSON 1-4 SE NW NW 4-T35S-R14W	JACK BENSON 1-3 SW SW 3-T35S-R14W	CITIES SERVICE EWB RANCH B-1 NE NW SW 4-T35S-R14W
CHASE (subsea)	2075 (-531)	2063 (-528)	2024 (542)
TOP PENN. (subsea)	3025 (-1481)	3012 (-1477)	2974 (-1492)
BS. HEEBNER (subsea)	3996 (-2452)	3978 (-2443)	3946 (-2464)
LANSING (subsea)	4172 (-2628)	4156 (-2621)	4122 (-2640)
STARK SHALE (subsea)	4598 (-3054)	4670 (-3073)	4553 (-3071)
CHEROKEE SH. (subsea)	4800 (-3256)	4800 (-3265)	4753 (-3271)
MISS DETRITAL (subsea)	4822 (-3278)	ABSENT -----	4786 (-3304)
MISS UNCONFORM. (subsea)	4834 (-3290)	4828 (-3294)	4797 (-3315)

CONCLUSION

The Benson 1-4 was drilled as a northwest off-set to established production in the Hertha Limestone, Mississippian Detrital, and Mississippian Dolomites. Electric logs indicate 38 feet of potential pay in the Mississippian Dolomites, which should be highly productive after treatment.

The Hertha Limestone also should make commercial quantities of hydrocarbons and should be tested prior to abandonment of the well.

After all data was analyzed, the decision was made to set pipe and attempt completion in the above mentioned zones. I recommend perforating the Mississippian Dolomite from 4,836 - 4,864 & 4,874 - 4,884.

Respectfully submitted

Mike Pollok
Petroleum Geologist
6/19/02