ORIGINA Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

22216	23/40 0200
Operator: License # 32210	API No. 15 - 007 22640 0000
Name: Harry A. Spring	County: Berber
Address: P.O. Box 1788	* <u>1/2 - Sec. 18</u> Twp. 35 S. R. 15
City/State/Zip: Ardmore O/C 73402	feet from S / N (circle one) Line of Section
Purchaser: Westana	feet from E / W (circle one) Line of Section **THE LINE TUNS MIDWAY THIN CE. (8 Footages Calculated from Nearest Outside Section Corner:
Phone: (580) 226 3800	(circle one) NE ? SE NW SW
Contractor: Name: Duke Drilling Co. Inc	Lease Name: Brown back Well #: 1-18
License: 5929	Field Name:
Wellsite Geologist: Mike Pollok	Producing Formation: MISSISSIPPI
Designate Type of Completion:	Elevation: Ground: 1815 Kelly Bushing: 1823
New Well Re-Entry Workover	Total; Depth: 5385 Plug Back Total Depth: 5326
OilSWDSIOWTemp. Abd S	Amount of Surface Pipe Set and Cemented at//46Feet
OilSWDSIOWTemp. AbdOS	Multiple Stage Cementing Collar Used? ☐ Yes ☒ No
Dry Other (Core, WSW, Expl., Cathodic, etc) &	If yes, show depth setFeel
Dry Other (Core, WSW, Expl., Cathodic, etc.)	If Alternate II completion, cement circulated from.
Operator:	feet depth tow/sx cmt.
Operator: Well Name: Original Comp. Date: Original Tatal Double.	2
Original Comp. Date: Original Total Depth:	(Data must be collected from the Reserve Pit)
DeepeningRe-perfConv. to Enhr./SWD	Chloride content 3500 ppm Fluid volume 600 bbls
Plug Back Plug Back Total Depth	Dewatering method used evaporation + dilution
Commingled Docket No	•
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No	Operator Name: Mc Sinness
1-30-01 2/8/01 (1/26/01	Lease Name: Lohmann License No.: 5255
Spud Date or Date Reached TD Completion Date or	Quarter Sec. 3 Twp. 35 S. R. 12 East X West
Recompletion Date Recompletion Date	County: Barber Docket No.: CD 4812
INCTRUCTIONS A SIGNATURE OF THE SIGNATUR	
INSTRUCTIONS: An original and two copies of this form shall be filed with t Kansas 67202, within 120 days of the spud date, recompletion, workover	ne Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, 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 a TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells.	and geologist well report shall be attached with this form. ALL CEMENTING Submit CP-111 form with all temporarily abandoned wells
The state of the s	Sastric St. 111 John Walf all temporality abalitories Wells.
All requirements of the statutes, rules and regulations promulgated to regulate	e 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:	KCC Office Use ONLY
Title: DEN NER Date: 6-19-01	1
" and T	Letter of Confidentiality Attached
Subscribed and sworn to before me this 4th day of June	If Denied, Yes Date:
BOOL:	Wireline Log Received
Notary Public: Junda Famelton	Geologist Report Received UIC Distribution
10. 10 12 2000	old bistilibration
Date Cornmission Expires: (April 15, 2002	

Operator Name:	Harry AS	Dring]	Lease Name:_	Brown	back	Well #:	-18	
Sec. /8 Twp. 3:	5 s. R. 15	☐ East 2		County:	Brown Barber				
INSTRUCTIONS: Shot tested, time tool open temperature, fluid reco	and closed, flowing very, and flow rates	and shut-in p if gas to surf	ressures, whet ace test, along	her shut-in pre with final char	essure reached	static level, hydr	ostatic pressu	res, bottom h	nole
Drill Stem Tests Taken		☐ Yes	No	[X]∟	og Formatio	on (Top), Depth	and Datum	San	nple
(Attach Additional Sheets) Samples Sent to Geological Survey Cores Taken Electric Log Run (Submit Copy) List All E. Logs Run: Dual Induction CNL-Density Microlog CEMENT RAND		⊠No	Nam He	ebnersH using	4320 4320 4508 4955 5264		Datum - 2 4 9 4 - 2 6 8 2		
		,	sta	irk st				- 3/29 - 3438	
	MICROLO9" CEMENT BONI	,	•	··.					
	····	Report all:	CASING RECO	٠	w Used	ion, etc.	•	······	
Purpose of String	Size Hole Drilled	Size Ca Set (In C	sing	Weight Setting Lbs. / Ft. Depth		Type of Cement	# Sacjs Used	Type and Addit	
y Surface	1214	8 5/9		24	1140	Class A	525	2%990	138C
p Production	77/8	41,	- /	10,5	5380	Asc	125	2%ge1	Floce
	<u> </u>	AC	DITIONAL CEM	ENTING / SQL	JEEZE RECORD			<u> </u>	
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of C	ement #	Sacks Used		Type and I	Percent Additive	s	
Shots Per Foot			Bridge Plugs Set			ture, Shot, Cemen		ord	Depth
2	5242-56	<u></u>			Treat w	11200 9	al 15%	MCA	
					Frec W/	65 Q NZ ref Nits # 16/30	foom a	569 bbl ~d	
					69,000				
TUBING RECORD	Size 2 3/8	Set At 5 / 9 0		cker At 190	Liner Run	Yes 🔀 No	•		
Date of First, Resumerd F		nhr. Pro	ducing Method	Flowing	g Pumpir	g 🔲 Gas Li	ft Oth	ner (Explain)	
Estimated Production Per 24 Hours	Oil E	3bls.	Gas Mcf	Wate	er Bl		Gas-Oil Ratio	(Gravity
Disposition of Gas	METHOD OF C	Į.			Production Interv			5302 - 5310	, /
☐ Vented X Sold (If vented, Sum	Used on Lease		Open Hole X	Perf. D	Dually Comp.	5270 ′− Commingled _	5288	·	

ALLIED CEMENTING CO., INC. 5167 Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	ORÍC	SINALSERV	ICE POINT:	ode.
DATE 2-1-01 SEC. TWP. RANGE C	ALLED OUT	ON LOCATION 9,00 p.Mg	JOB START	JOB FINISH 3:00 AM
LEASE Brown Back WELL# 1-18 LOCATION Hardto	ner west	to Airport	COUNTY	STATE
OLD OR NEW (Circle one)		0		,
CONTRACTOR Dyke =5	OWNER A	farry Spri	ig Opera	ting
TYPE OF JOB Surface HOLE SIZE 124 T.D. 1/45	CEMENT	, ,	<i>/ /</i>	1
CASING SIZE RAY DEPTH 1/40		DERED 375	5x 165-35.	6+3%
TUBING SIZE DEPTH	CC +/43	Flo-seal	150 SX CI	. •
DRILL PIPE DEPTH TOOL OUT OF DEPTH	3% cc	+ 2% gel		
TOOL Date DEPTH 1/00 PRES. MAX 8000 MINIMUM 350	COMMON A	ISO	@ <i>6.35</i>	952.50
MEAS. LINE SHOE JOINT 40, 30	POZMIX		@ <u>2.22</u> @	<u> </u>
CEMENT LEFT IN CSG.	GEL	3	@ 9.SD	28.50
PERFS.	CHLORIDE _	18	@2 <u>8.00</u>	504.00
DISPLACEMENT 703 BRLS Fresh # 0	Aw.	37 <u>5</u> 94#	@ <u>6.00</u>	2250.00
EQUIPMENT	FLO-SERL	744	_@ <u>/.<i>4</i>0</u> @	131.60
THE STREET STREET				
#359-XS HELPER Mark Bryngardt			@	
#.359 - 25 HELPER Mark Brungarett BULK TRUCK	HANDLING_		@ 1.05	593.25
#233-290 DRIVER Scott Spriggs	MILEAGE _<	065X 48	04	<u>1084.80</u>
BULK TRUCK #258-314 DRIVER JOSON TOITH			TOTAL	5544.65
REMARKS: Pipe on DoHom Break Circ Mix 3755x 65.35.6 @ 0.8#	DEPTH OF JO	SERVIO	CE	
1/x 150 sx 1/2 @ 152#	PUMP TRUCK	CHARGE O-	300'	47010
Release they - Start 1 so 5 15th	EXTRA FOOT	AGE <u>840'</u>	@ <u>-43</u>	361.20
60 BBLS SlowRate 3 BPM 705 BBLS	MILEAGE PLUG	30P	@ <u>3.00</u> @ 90.00	90.00
350 Forces Burns Plug to 800 shut	1200		_@_ <i></i>	10.00
head in Release press circulated eer	nent		@	
			1	10/0
CHARGE TO: Harry Spring Operating.			TOTAL	1065.20
STREET P.O. Box 1788		FLOAT EQUI	PMENT	
CITY AROMORY STATE OKLA. ZIP 73402	83			
	1- Batt)	eplate	@ <i>45.00</i>	45.00
	3-Bask	ets	@ <u>180-00</u>	360.00
			. @	
To Allied Comenting Co. Inc.			@	
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment				
and furnish cementer and helper to assist owner or			TOTAL	405.00
contractor to do work as is listed. The above work was				
done to satisfaction and supervision of owner agent or	TAX			
contractor. I have read & understand the "TERMS AND	TOTAL CHAR	GE 7013.	BS .	
CONDITIONS" listed on the reverse side.		710× 26	7	
	DISCOUNT -	6310 41	IF PAII	IN 30 DAYS
CICNIATURE /	4	1 210.46	<u></u>	
SIGNATURE Jan Handle	-1012 L	DDINTE	ON/ D NAME	
	1	FRINIE	DIVANIE	
	\$3.			

ALLIED CEMENTING CO., INC. 5211 Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	ORIGINAL SERVICE POINT: MED Ladge
DATE 1-9-D1 18 355 15W	CALLED OUT ON LOCATION JOB START JOB FINISH
LEASEBOUNDACK WELL# 1-18 LOCATION JAC OLD OR (NEW) (Circle one)	K TRAPLER IE BARDIN KS
CONTRACTOR DE LOS CO #5 TYPE OF JOB PROD CO	OWNER HARRYS PRING Open Co.
HOLE SIZE 778 T.D. 5385	CEMENT
CASING SIZE 42 10,50 DEPTH TUBING SIZE DEPTH	AMOUNT ORDERED 125skx ASC + 5 Kol-Sept 25 sks 10:40:16 for Rathole- Mousehole
DRILL PIPE DEPTH	22 20 (9), this tall patrole
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON /S @ 6.25 95.25
MEAS. LINE SHOE JOINT 39,8	
CEMENT LEFT IN CSG. 40 ft. PERFS.	GEL@ <i>9.509.50</i>
DISPLACEMENT 8566	HSC 125 @ B.20 1025.00
EQUIPMENT	KOL-SAL 625# @ .38 237.50
EQUI WENT	MUD CLEAN SON BAK @ .73 375.00
PUMPTRUCK CEMENTER LARRY STORM	
#356-302 HELPER DANGO West	— <u> </u>
BULK TRUCK	— HANDLING <u>/86</u> @ <u>/.05</u> <u>/9.57</u> MILEAGE <u>48 X /86 X .04</u> <u>357./2</u>
#352 DRIVER - HSDN	WILLEAGE TO A 100 A 104
BULK TRUCK # DRIVER	TOTAL 23-27-144
# DRIVER	2327.1
Broke Circulation Potany M.	SERVICE
Cre 25 min Swictore Dump	DEPTH OF JOB 5385
Pullish - Bothan Foling - Comme	FUMP TRUCK CHARGE 1290.00
Alah pung & lines - 150 Jan	EXTRA FOOTAGE@
Juich 85 Hb green attendation at	MILEAGE 48 @ 3.00 144:00
Land Plug, Float late	PLUG 1-45 TED @ 38 00 38.00
15 sks- 20/4026 - Rythole 10 sks 60/4026 - Mousehole	
10 3k3 BOJAGUE - MODE MOVE	
CHARGE TO: HARRY Sprang Open Co.	TOTAL 15-22.00
STREET P.O. Box 1788	TO ATT DOLLARS
	FLOAT EQUIPMENT
CITY ARDMORE STATE OKLA ZIP 7346	
	1-42 GUIGE Shor @ 625.00 625.00 1-42 PAFU FloAT CONTAR @245.00 245.00
	5-42 Centi @ 45.00 225.00
	1-42 Stop PPag @ 20.00 20.00
To Allied Cementing Co., Inc.	
You are hereby requested to rent cementing equipmen	t TOTAL 615.00
and furnish cementer and helper to assist owner or	
contractor to do work as is listed. The above work wa	
done to satisfaction and supervision of owner agent or	11111
contractor. I have read & understand the "TERMS AN	TOTAL CHARGE 4464.44
CONDITIONS" listed on the reverse side.	MICKIC/V
	DISCOUNT HOLD IF PAID IN 30 DAYS
CYCLUMING I I I	
SIGNATURE for storye	
	LYINIED NAME

15-007-72640-0000







MAP EXPLORATION, INC.

MICHAEL ANTHONY POLLOK, PRES.

P.O. BOX 106 ■ PURCELL, OKLAHOMA 73080

OFFICE 405/527-6038 - Home 405/527-5200 - Mobile 405/650-0793 - FAX 405/527-7629

GEOLOGICAL REPORT

ORIGINAL

BROWNBACK 1-18

450 FSL & 450 FEL OF SEC. 18 – T35S – R15W

BARBER COUNTY, KANSAS

SUMMARY

The above captioned well was drilled to a total depth of 5,385 feet on February 8, 2001. A one-man mud-logging unit with gas chromatograph was on location from 1,500 feet to TD, with samples being analyzed from 4,000 feet to TD. The well was under the geological supervision of the undersigned from approximately 4,300 feet to TD. At TD, Reeves electric logs were run that consisted of Dual Induction, Compensated Density-Neutron, and Micro-log. From data collected while drilling and analyzing, hydrocarbon shows were encountered in the middle Kansas City Limestone, the Oswego Limestone, the Mississippian Detrital and Mississippian Dolomite. The decision was made to set a production string of casing and attempt completion in the two Mississippian zones.

MIDDLE KANSAS CITY LIMESTONE

A porosity zone that would be considered equivalent to the Dennis Limestone member in Kansas's nomenclature was encountered at 4,936 (-3110) feet. A three-foot drilling break was encountered with a 20-unit above background gas kick recorded on the gas chromatograph. Samples were described as off-white to cream buff, very fine to microcrystalline predominately chalky limestone. Electric logs indicate a three-foot zone of 10% porosity that calculates "wet".

OSWEGO LIMESTONE

The Oswego (Pawnee) Limestone was topped at 5,144 (-3318) feet. Samples were described as cream to buff, very fine to fine crystalline limestone, with some slightly onlitic pieces being observed, along with some pin-point and oomoldic porosity being seen. A dull vellow mineral fluorescence with no visible cut or odor was recorded. The gas chromatograph recorded a 20-unit above background gas kick. Electric logs indicate a two-foot zone of 10% porosity that calculates productive. The micro-log recorded two feet of positive separation, which indicates permeability. This zone should be perforated and tested before the well is plugged and abandoned.

ORIGINAL

MISSISSIPPIAN

The Mississippian Detrital was cut at 5,242 (-3416) feet. This zone was a total of 14 feet thick, with porosity averaging 16% or above throughout. Samples consisted of off-white to tan dolomitic limestone with sucrosic texture and intercrystalline porosity. A wide spectrum of cherts was observed and consisting of fresh milky translucent grading to mottled slightly tripolitic cherts, with pinpoint porosity observed. An 85-unit above background gas kick was recorded along with a bright greenish yellow fluorescence with slow streaming cut.

The top of the Mississippian Unconformity was encountered at 5,264 (-3438) feet. Samples were described as cream tan very fine to fine crystalline sucrosic dolomite, with good intercrystalline, pinpoint, and vugular porosity being observed. Samples illustrated the sucrosic dolomite grading into a cherty facies. The gas chromatograph recorded a 205-unit above background gas kick. A bright greenish yellow fluorescence along with a streaming cut and live oil staining was seen. Electric logs indicate a twenty-foot thick dolomite zone with average porosity of 13%. Micro-log was scattered at best, but seemed to be illustrating some permeability.

ELECTRIC LOG TOPS

	SPRING	JACK	SPRING
	BROWNBACK 1-18	COOT 1-13	BRASS 1-17
	450 FSL & 450 FEL	NE NESW	650 FNL & 600 FEL
CHASE	2424	2425	2307
(SUBSEA)	(-598)	(-599)	(-583)
TOP PENN.	3380	3388	3256
(SUBSEA)	(-1554)	(-1562)	(-1523)
BS. HEEB.	4320	4346	4203
(SUBSEA)	(-2494)	(-2520)	(-2479)
LANSING	4508	4540	4400
(SUBSEA)	(-2682)	(-2714)	(-2676)
STARK SH.	4955	4976	4834
(SUBSEA)	(-3129)	(-3150)	(-3110)
CHEROKEE	5190	5210	5069
(SUBSEA)	(-3364)	(-3384)	(-3345)
MISS DETR.	5242	5257	5113
(SUBSEA)	(-3416)	(-3431)	(-3389)

15.007-22640-0000

ORIGINAL

MISS UNCON. 5264 5278 5148 (SUBSEA) (-3438) (-3452) (-3424)

CONCLUSION

The Brownback 1-18 was drilled as a western extension to existing production. Potential zones of interest were Oswego (Pawnee) Limestone, Mississippian Detrital and Mississippian Dolomites. All three zones were cut in the Brownback and should be evaluated through perforations.

After all data was analyzed, the decision was made to set pipe and attempt completion in the Mississippian Detrital and Dolomite zones. The Oswego should be perforated for production at some time before abandonment of the well.

Respectfully submitted,

Mike Pollok Petroleum Geologist

2/14/01