

SIDE ONE

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

Operator: License # 06113

Name: Landmark Oil Exploration, Inc.

Address 250 N. Water, Suite 308

City/State/Zip Wichita, Kansas 67202

Purchaser: Koch Oil Company

Operator Contact Person: Jeff Wood

Phone (316) 265-8181

Contractor: Name: Blue Goose Drilling

License: 5104

Wellsite Geologist: Ron Dulos

Designate Type of Completion

New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

03-24-91 04-03-91 04-15-91
Spud Date Date Reached TD Completion Date

API NO. 15- 109-20,503-0000

County Logan

SW SW SE Sec. 4 Twp. 11-S Rge. 33-W XX East West

320 Ft. North from Southeast Corner of Section

2310 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

Lease Name Nollette Well # #2-4

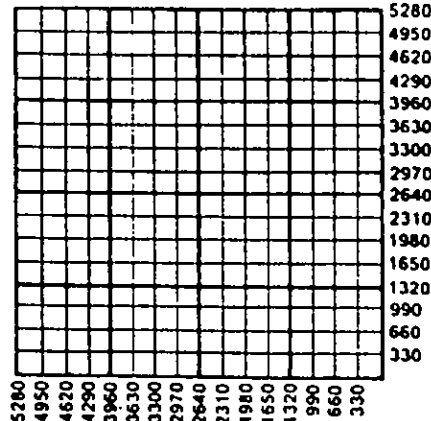
Field Name unnamed

Producing Formation LKC, Johnson zone

Elevation: Ground 3132' KB 3139'

Total Depth 4752' PBD 4728'

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Amount of Surface Pipe Set and Cemented at 329 @ 336 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2620 Feet

If Alternate II completion, cement circulated from 2620

feet depth to surface w/ 415 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 _____

Title President, Jeffrey R. Wood Date 04-29-91

Subscribed and sworn to before me this 29th day of April, 19 91.

Notary Public Karri Wolken

Date Commission Expires December 21, 1991

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

SIDE TWO

Operator Name Landmark Oil Exploration, Inc. Lease Name Nollette Well # #2-4
 Sec. 4 Twp. 11-S Rge. 33-W East West
 County Logan

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 Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Formation Description

Log Sample

Name _____ Top _____ Bottom _____

CASING RECORD New 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		8-5/8"	19#	328.97	60-40 poz	220	2%gel, 3%CC
production		5-1/2"	15#	4744'	EA-2	150	.25% D-Air-1; 10% salt; 5% Gal-Sea .5% Halad 322 & 6# Gilsonite/sack

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3	4632 - 4638	500gls 15%MCA; 1500gls 15% NE	
3	4294 - 4299	1500gls 15%NE w/silt suspender in 1st	750gls

TUBING RECORD Size 2-7/8" Set At 4712.98 Packer At 2620 Liner Run Yes No

Date of First Production 04-18-91 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	260				

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

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____

Production Interval _____

ORIGINAL

Attachment to ACO-1
Page Two

Operator Name: Landmark Oil Exploration, Inc.
Lease Name: Nollette
Well Number: #2-4
Location: SW SW SE, Sec. 4-11S-33W
Logan County, Kansas
API Number: 15-109-20,503

DST #1 4221-4288 30-30-30-30. Rec. 250' gip; 500' cgo; 60' wtr.
FP 89-133/178-178#. SIP 1074-1047#.

DST #2 4278-4312 Packer Failure

DST #3 4251-4312 30-45-60-60. Rec. 1550' gip; 1800' cgo.
FP 133-312/401-625#. SIP 1026-1024#.

DST #4 4311-4380 30-45-60-60. Rec. 300' osm. FP 89-89/133-178#.
SIP 1201-1164#.

DST #5 4603-4672 30-45-45-60. Rec. 900' gip; 2000' cgo, no wtr.
FP 205-383/446-697#. SIP 1028-1010#.

LOG TOPS

Anhydrite	2624'	+515
B.Anhydrite	2650'	+489
Heebner	4041'	-902
Toronto	4069'	-930
Lansing "A"	4084'	-945
Muncie Creek	4225'	-1086
Lansing "J"	4294'	-1155
Stark	4310'	-1171
BKC	4370'	-1231
Marmaton	4398'	-1259
Pawnee	4504'	-1365
Myric Station	4540'	-1401
Ft.Scott	4559'	-1420
Cherokee	4587'	-1448
Johnson	4629'	-1490
Mississippi	4690'	-1551
LTD	4752'	-1613

STATE OF KANSAS
MAY 7 1991
CONSERVATION DIVISION
Wichita, Kansas

CT. OBERLIN, Ks.

DATE 4-10-91

HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: LANDMARK OIL EXPL (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 2-4 LEASE NOLLETTE SEC. _____ TWP. _____ RANGE _____

FIELD W/OAKLEY, Ks. COUNTY LOGAN STATE Ks. OWNED BY LANDMARK

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING		N	15.0	5 1/2"	KB.	-	
LINER							
TUBING		4	6.5	2 7/8"	KB.		
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

FORMATION THICKNESS FROM _____ TO _____
 PACKER: TYPE PORT COLLAR SET AT 2620'
 TOTAL DEPTH _____ MUD WEIGHT _____
 BORE HOLE _____
 INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
 PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____
 TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

CMT. PORT COLLAR w/ 415 SKS. OF HLC w/ 1/4" FLOCELG
PREFLUSH w/ 20 BBL OF SALT FLUSH

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MAY 2 9 1991

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

CONSERVATION DIVISION
 WICHITA, KANSAS

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
 - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
- The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the product, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
 - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, and punitive or consequential damages.
 - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.
 SIGNED Darrell D. Dignel CUSTOMER
 DATE 4-10-91

WELL DATA

LOAKLEY, Ks. SEC. TWP. RING. COUNTY LOGAN STATE Ks.

FORMATION NAME TYPE
 FORMATION THICKNESS FROM TO
 INITIAL PROD: OIL SPD. WATER BPD. GAS MCFD
 PRESENT PROD: OIL SPD. WATER BPD. GAS MCFD
 COMPLETION DATE MUD TYPE MUD WT.
 PACKER TYPE PORT COLLAR SET AT 2620'
 BOTTOM HOLE TEMP. PRESSURE
 MISC. DATA TOTAL DEPTH

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.0	5 1/2"	KB	-	
LINER						
TUBING	U	6.5	2 1/8"			
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 4-10-91 TIME 0630	DATE 4-10-91 TIME 1030	DATE 4-10-91 TIME 1312	DATE 4-10-91 TIME 1530

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
G.L. BRYANT	3243	
K. LEGG	RCM	OBERLIN, Ks.
G. DAVIS	50181	
	BULK TRK.	OBERLIN, Ks.

MATERIALS

TREAT. FLUID DENSITY LB/GAL-API
 DISPL. FLUID DENSITY LB/GAL-API
 PROP. TYPE SIZE LB.
 PROP. TYPE SIZE LB.
 ACID TYPE GAL %
 ACID TYPE GAL %
 ACID TYPE GAL %
 SURFACTANT TYPE GAL IN
 NE AGENT TYPE GAL IN
 FLUID LOSS ADD. TYPE GAL-LB. IN
 GELLING AGENT TYPE GAL-LB. IN
 FRIC. RED. AGENT TYPE GAL-LB. IN
 BREAKER TYPE GAL-LB. IN
 BLOCKING AGENT TYPE GAL-LB.
 PERFFAC BALLS TYPE QTY.
 OTHER
 OTHER

DEPARTMENT GROT.
 DESCRIPTION OF JOB GROT. PART COLLAR
 W/ 415 SKS. HLC W 1/4" FLOCCLE

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Russell Bright

HALLIBURTON OPERATOR G.L. BRYANT COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT/SK.	MIXED LBS/GAL
	415	HLC		B	1/4" FLOCCLE	1.97	12.4

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING DISPLACEMENT PRESLUSH (BBL) GAL 20 SAST FLUID TYPE
 BREAKDOWN MAXIMUM LOAD & BKDN: BBL GAL PAD: BBL GAL
 AVERAGE FRACTURE GRADIENT TREATMENT (BBL) GAL DISP (BBL) GAL 15-8
 SHUT-IN INSTANT 5-MIN. 15-MIN. STATE CORPORATION COMMISSION CEMENT SLURRY (BBL) GAL 145
 HYDRAULIC HORSEPOWER TOTAL VOLUME: BBL GAL
 ORDERED AVAILABLE USED AVERAGE RATES IN BPM
 TREATING DISPL. OVERALL CEMENT LEFT IN PIPE
 FEET REASON

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ON SERVICES B LOG

WELL NO. 2-4 LEASE NOLLETTE

TICKET NO. 051354

CUSTOMER LANDMARK

PAGE NO. 1

J13 R-2

JOB TYPE CMT. PORTCELLAR

DATE 4-10-91

HRT O.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0630							called out
	1030							ON LOC. - Rig Running TBng.
	1100							REQUESTED
	1312							PRES. up 500* ON TBng.
	1315		3					PORT CELLAR OPEN - pump 3 BBL H ₂ O 8 5/8" Blowing -
	1320	50/m		1		500		START 20 BBL OF SALT FLUSH.
								8 BBL pumped - 8 5/8" circulating
	1325	5	20	1		500		FINISH SALT FLUSH
								Rig WORKING WITH STRIPPER HEAD
	1340	4		1		500		START CMT. - 415 SKS OF HLC 1/4" FLACELE
	1415	4	145	1		700		FINISH CMT. - START Displ.
		4	15	1		1000		15 BBL Displ. SHUT DOWN -
								APPEARED TO BE A TRACE OF CMT. CIRC.
								CO. MAN WANTED TO Displ. SOME MORE.
								Displ 8 MORE BBL - Circ. CMT.
	1425							FINISH Displ
								close PORTCELLAR
								Run 1 JT.
	1440							CIRCULATE HOLE CLEAN - 20 BBL
								WASH up + RACK up.
	1530							JOB COMPLETE.

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