

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 # 5565
Name: NATIONAL COOPERATIVE
Address: REFINERY ASSOCIATION
6000 W. 10TH
City/State/Zip GREAT BEND, KS, 67530

Purchaser: _____
Operator Contact Person: STEVE BRACKEEN
Phone (316) 793-7824

Contractor: Name: WHITE & ELLIS DRILG. CO.
License: 5420

Wellsite Geologist: THOMAS FUNK

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

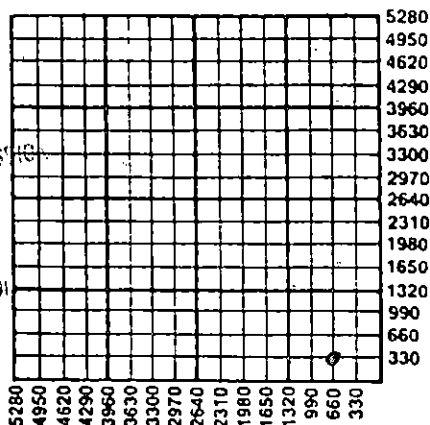
If **OWNO**: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
2-26-90 3-8-90 3-9-90
Spud Date Date Reached TD Completion Date

API NO. 15- 095-21,631-00-00
County KINGMAN
S/2 SE SE Sec. 8 Twp. 29 Rge. 10 East West
330 Ft. North from Southeast Corner of Section
660 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name MILLER Well # 1
Field Name _____

Producing Formation _____
Elevation: Ground 1769' KB 1774'
Total Depth 4810' PBDT _____



Amount of Surface Pipe Set and Cemented at 313 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.

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 Steve Brackeen
Title DISTRICT FOREMAN Date 4/9/90
Subscribed and sworn to before me this 9TH day of April, 19 90.
Notary Public Patricia Schultz
Date Commission Expires _____

NOTARY PUBLIC - State of Kansas
PATRICIA SCHULTZ
My Appt. Exp. 1-29-93

K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

ORIGINAL

SIDE TWO

Operator Name N.C.R.A. Lease Name MILLER Well # 1

Sec. 8 Twp. 29 Rge. 10 East West
County KINGMAN

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description <input type="checkbox"/> Log <input type="checkbox"/> Sample Name Top Bottom
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<u>SEE ATTACHMENTS</u>		

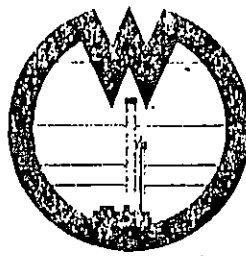
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
<u>SURFACE</u>	<u>12 1/4"</u>	<u>8 5/8"</u>	<u>24#</u>	<u>313</u>	<u>60/40 Poz</u>	<u>285</u>	<u>3% CaCl</u>
PERFORATION RECORD Shots Per Foot Specify Footage of Each Interval Perforated				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth			
TUBING RECORD Size Set At Packer At				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production	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: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____

ORIGINAL



15-095-21631-00-00

WHITE

AND ELLIS DRILLING, Inc.

DRILLERS LOG

OPERATOR: N.C.R.A., 6000 W. 10th, Great Bend, KS 67530

CONTRACTOR: White & Ellis Drilling, Inc., 401 E. Douglas, Suite 500,
Wichita, Ks. 67202

Lease Name Miller Well No. 1

Sec. 8 T. 29S R. 10 Spot 150' S of C SE SE

County Kingman State Kansas Elevation _____

Casing Record:

Surface: 8 5/8" @ 304' with 175 sx. 2% Gel

Production: _____ @ _____ with _____ sx.

Type Well: D & A Total Depth 4810'

Drilling Commenced 2-26-90 Drilling Completed 3-8-90

Formation	From	To	Tops	
Cellar	0	7	Tarkio	2735
Shale	7	2525	Topeka/Heebner	3340
Shale & Sand	2525	2654	Kansas City	3990
Shale	2654	2910	Mississippi	4215
Lime & Shale	2910	4122	Kinderhook Sh	4445
Lime	4122	4355	Simpson Sd	4630
Shale	4355	4540	Arbuckle	4715
Lime & Shale	4540	4810		

ORIGINAL

77-0

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR National Cooperative Refinery Assoc
 LEASE Miller WELL NO. 1
 FIELD Wildcat
 LOCATION 330' FSL ; 660' FFL
 SEC. 8 TWSR. 295 RNG. 10 W
 COUNTY Kingman STATE KANSAS

ELEVATIONS
 KB 1774
 DF _____
 GL 1769

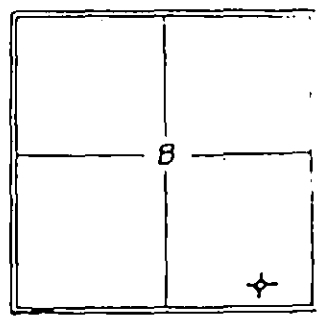
MEASUREMENTS ARE ALL
 FROM KB

CONTRACTOR White & Ellis Drilling Inc. Rig # B
 COMM. 2/26/90 COMP. 3/8/90
 RTD 4810 LOG TO 4812
 SAMPLES SAVED FROM 1600 TO TD
 DRILLING TIME KEPT FROM 1600 TO TD
 SAMPLES EXAMINED FROM 1600 TO TD
 GEOLOGICAL SUPERVISION FROM 1825 TO TD
 MUD UP 2500 TYPE MUD Starch
 WELL SITE GEOLOGIST Thomas Funk

CASING RECORD
 SURFACE 8 5/8" at 313'
w/ 2.85 sx.
 PRODUCTION None

ELECTRICAL SURVEYS
 Atlas Wireline Serv.
 DIFL/GR/SP
 C.DAC/CN/ML/GR
 BHC AL/GR/CAL

FORMATION	LOG		SAMPLE		STRUCT COMP.
	TOP	DATUM	TOP	DATUM	
Herrington	1814	(-40)	1814	(-40)	01 -17
Oxoga Shale	2608	(-834)	2605	(-831)	01 -32
Howard	3051	(-1277)	3050	(-1276)	01 -41
Heebner	3565	(-1791)	3563	(-1789)	01 -51
Brown Lime	2739	(-1965)	3737	(-1963)	01 -10
Stark Shale	4069	(-2295)	4068	(-2294)	01 +19
Mississippian	4309	(-2535)	4308	(-2534)	01 +7
Kinderhook Sh	4390	(-2616)	4373	(-2599)	01 -2
Viola	4579	(-2805)	4580	(-2806)	01 +14
Simpson Sand	4667	(-2893)	4666	(-2892)	01 +12
Arthurke	4759	(-2985)	4758	(-2984)	01 NA
TD	4812		4810		



REFERENCE WELL FOR STRUCTURAL COMPARISON (1) TXO #1 Alberts A 7 1/2" x 1/2" SE
 Sec 9-295-10W (2) Grayhd #1 Thione C SW 1/4 Sec 22-295-10W

APR 11 1990

ORIGINAL



15-095-21631-0008 ORIGINAL

INVOICE DATE
02/26/90

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: BJ-TITAN SERVICES P.O. BOX 100806 HOUSTON, TX 77212
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PAGE 1	INVOICE NO. QA074
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N C R A
1775 SHERMAN ST., SUITE 300
DENVER CO 80203

AUTHORIZED BY
551703

PURCH. ORDER REF. NO.

WELL NUMBER : 1 CUSTOMER NUMBER : 02582020

LEASE NAME AND NUMBER MILLER	STATE 14	COUNTY/PARISH	CITY	DISTRICT NAME MEDICINE LODGE	DISTR. NO. 3350
JOB LOCATION/FIELD WILDCAT	APR 02 1990	MTA DISTRICT	DATE OF JOB 02/26/90	TYPE OF SERVICE LAND-CONDUCTOR/SURFACE	

Processing

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100305	1.00	CEMENTING CASING 300 TO 1500 FT.	375.00		375.00
10100310	13.00	PLUS PER FOOT BELOW 300 FT.	0.42		5.46
10109005	48.00	MILEAGE CHRG. FROM NEAREST BASE OF	1.10		52.80
10410504	171.00	CLASS "A" CEMENT	5.30	CF	906.30
10415018	114.00	DIAMIX F	2.61	CF	297.54
10415049	735.00	A-7-P CALCIUM CHLORIDE PELLETS	0.32	LB	235.20
10420145	4.90	RJ-TITAN GEL, BENTONITE, BULK SALES	6.75	CW	33.08
10880001	285.00	MIXING SEVICE CHRG DRY MATERIALS, P	0.95		270.75
10940103	309.60	DRAYAGE, PER TON MILE	0.70		216.72
10430536	1.00	8-5/8" TOP RUBBER PLUG	100.00	EA	100.00
10409600	1.00	8 5/8" INSERT - B	246.00	GL	246.00
10409600	3.00	8 5/8" CENTRALIZERS - B	57.65	GL	172.95
10409600	1.00	BAKER LOK KIT	20.00	GL	20.00
SUBTOTAL					2,931.80
DISCOUNT					645.01

ACCOUNT	4.25000% STATE TAX 1.00000% COUNTY TAX	1568.63 1568.63	66.66 15.69
<p>Checked by <u>Patricia Johnson</u> Date <u>3-21-90</u> Approved as to current status, operating or drilling invoicing only. <u>Maui Bell</u> Production Department</p>		1-0-120	

ORIGINAL
CONSERVATION Division
Wichita, Kansas

TAX EXEMPTION STATUS: PAY THIS AMOUNT → 2,369.14



REMITTANCE ADVICE

INVOICE DATE
03/08/90

DIRECT BILLING INQUIRIES TO 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO B.J. SERVICES P.O. BOX 100806 HOUSTON, TX 77212
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PAGE 1 OF 1
1 QV101

N.C.R.A.
P.O. BOX 6
GREAT BEND, KS 67530

AUTHORIZED BY
610630

WELL NUMBER : 1 CUSTOMER NUMBER : 02582004²⁰²⁰

PURCH ORDER REF NO.

LEASE NAME AND NUMBER MILLER	STATE 14	COUNTY/PARISH	CITY	DISTRICT NAME MEDICINE LODGE 3350	DISTR NO.
JOB LOCATION/FIELD WILD CAT	MTA DISTRICT	DATE OF JOB 03/08/90	TYPE OF SERVICE LAND-PLUG AND ABANDON		

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10102120	1.00	CEMENTING THRU TUBING 3001 TO 5000	879.00		879.00
10102125	17.44	PLUS PER 100 FT BELOW 3000 FT	10.80		188.35
10109005	48.00	MILEAGE CHRG. FROM NEAREST BASE OF	1.10		52.80
10410504	175.00	CLASS "A" CEMENT	5.30	CF	927.50
10420145	3.29	BJ-TITAN GEL, BENTONITE, BULK SALES	6.75	CH	22.21
10940101	201.60	DRAYAGE, PER TON MILE	0.70		141.12
10880001	175.00	MIXING SEVICE CHRG DRY MATERIALS, P	0.95		166.25
SUBTOTAL					2,377.23
DISCOUNT					475.44

SB
3-27-90
AFE # 1-0-120

ACCOUNT	4.25000% STATE TAX 1.00000% COUNTY TAX	750.77 759.77	32.30 1.60
RECEIVED STATE OPERATIONS APR 11 1990 CONSERVATION DIVISION Wichita, Kansas		ORIGINAL	

TAX EXEMPTION STATUS: PAY THIS AMOUNT 1,941.69