•	PR -
SID	E ONE
STATE CORPORATION COMMISSION OF KANSAS OIL & GAS CONSERVATION DIVISION	163-22,866-00-06 API NO. 15
WELL COMPLETION OR RECOMPLETION FORM  ACO-1 WELL HISTORY	East
DESCRIPTION OF WELL AND LEASE	NESENE. sec.31. Twp.9S.Rge.18 XX West
Operator: License # .5252  Name R P NIXON OPERATIONS  Address . 207 W 12TH	
city/State/ZipHAYS KS 67.601	Lease NamePYWELL
Purchaser INLAND PURCH & TRANS CO. WICHITA KS	Field Name
Operator Contact Person .DAN.A.NIXON	Producing Formation LANSING KC & SIMPSON DOLOMITI
Contractor:License # 5128 RIG TAG 36 Name JAY-LAN CORPORATION	Section Plat  5280 4950 4620
Wellsite Geologist DAN A NIXON Phone 913-628-3834	3960 3960 3630 3300
Designate <b>Type of Completion</b> XX New Well Re-Entry Workover	2970 2970 2640 2310 1980
SWD Temp Abd  Inj Delayed Comp.  Other (Core, Water Supply etc.)	1650 1320 990 660
Ory Other (Core, Water Supply etc.)  If OWWO: old well info as follows:	330
Operator	5280 4950 4620 4230 3300 3300 2310 1320 1320 330 330 330 330 330 330 330
Comp. DateOld Total Depth	WATER SUPPLY INFORMATION Disposition of Produced Water: Disposal
WELL HISTORY	Docket #
Drilling Method:  XX Mud Rotary Air Rotary Cable	Questions on this portion of the ACO-1 call:
2-26-86 3-4-86 3-4-86	Water Resources Board (913) 296-3717 Source of Water:
Spud Date Date Reached TD Completion Date	Division of Water Resources Permit #
	GroundwaterFt North from Southeast Corner (Well)Ft West from Southeast Corner of Sec Twp Rge East West
Amount of Surface Pipe Set and Comented at 227feet  Multiple Stage Comenting Collar Used? X Yes No If yes, show depth set 16.22	Surface WaterFt North from Southeast Corner (Stream,pond etc)Ft West from Southeast Corner Sec Twp Rge East West
Cement Company Name BJ-TITAN.SERWICES Invoice #2826785-9-86 50/50 POZMIX 6% GEL	Other (explain)(purchased from city, R.W.D. #)
	cate and filed with the Kansas Corporation Commission, , within 90 days after completion or recompletion of any
in writing and submitted with the form. See rule 82 One copy of all wireline logs and drillers time lo	g shall be attached with this form. Submit CP-4 form with
all plugged wells. Submit CP-111 form with all temp	
All requirements of the statutes, rules and regulat been fully complied with and the statements herein ar	ions promulgated to regulate the oil and gas industry have to complete and correct to the best of my knowledge.
Signature and Mull Mull	K.C.C. OFFICE USE ONLY  F letter of Confidentiality Attached
GEOLOGIST Title	C Wireline Log Received C Drillers Timelog Received
Subscribed and sworn to before me thisday of	MAY NGPA NGPA
19.8.6 Notary Public HOLMA M Nellman	KGS Plug Other (Specify)
LORNA M HERRMAN	SORFORN TONES
A TO No MINING STAND IN A LEGISLAND OF THE PROPERTY AND A STAND OF THE PROPERTY AND A	CON- 1 2 18810M
. LCRNA M HERR : \>\ \P PUBLI : UF KANS : 6-19-8	CRASER ATION DIVISION AS  AS  RESERVATION DIVISION  AS  RESERVATION DIVISION  AS  RESERVATION DIVISION
Company of the state of the sta	2 December and the second seco

#### SIDE TWO

Operator Name P NIXON OPERATIONS Lea	ase NamePYWELLWell #.1
Sec. 31 Twp. 95 Rge. 18 X West Co.	untyROOKS
WELL LOG	
INSTRUCTIONS: Show important tops and base of formations per tests giving interval tested, time tool open and close pressure reached static level, hydrostatic pressures, botto if gas to surface during test. Attach extra sheet if more s	ed, flowing and shut-in pressures, whether shut-in om hole temperature, fluid recovery, and flow rates
Drill Stem Tests Taken Yes X No	Formation Description
Samples Sent to Geological Survey Yes X No Cores Taken Yes X No	X Log Sample
	Name Top Bottom
49	ANHYDRITE (DRLRS) 1602' +579   ANHYDRITE BASE 1638' +543   TOPEKA 3135' -954   HEEBNER SHALE 3344' -1163   TORONTO LIME 3368' -1187   LANSING 3384' -1203   BASE OF KC 3606' -1425   CONGLOMERATE 3627' -1446   SIMPSON DOLOMITE 3686' -1505   ARBUCKLE DOLOMITE 3720' -1539   TOTAL DEPTH 3732' -1551
CASING RECORD X New Report all strings set-conductor, surface,	intermediate, production, etc.
Purpose of String   Size Hole   Size Casing   Weight   Drilled   Set (in O.D.)   Lbs/Ft.	Type and Setting Type of #Sacks Percent Depth Cement Used Additives
SURFACE 12 ½ 8 5/8" PRODUCTION 7 7/8" 4 ½" SEE ATTACHED COMPLETION REPORT	227'   60/40PM   135   3%gel.2%c.c   3734'   SUREFILL   125 & 500 GALS MUDSWEE     COMMON   400
PERFORATION RECORD Shots Per Foot Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
SEE ATTACHED COMPLETION REPORT	
TUBING RECORD Size 2 3/8"Set At Packer at NTA	Line Dun Complete
2 3/0 IVA	Liner Run Yes XX No
Date of First Production   Producing Method	ping Gas Lift Other (explain)
Oil Gas	Water Gas-Oil Ratio Gravity
Estimated Production Per 24 Hours  52 Bbls MCF	 
METHOD OF COMPLETION	
Disposition of gas: Vented Open Hole Sold Other (Spec	XX Perforation
	ally Completed

#1

WELL

PETROLEUM GEOLOGIST

LOCATION NE SE NE of Section 31, T9S-R18W

Rooks County, Ks.

LEASE

Pywell

Operater:

R.P. Nixon Operations 207 West 12th Street Hays, Kansas 67601

Contractor:

Jay-Lan Corp. Rig #3 207 West 12th Street Hays, Kansas 67601

Elevation:

American Elevations Ground level: 2174' Rotary bushing: 2181' All measurements are from the rotary bushing.

Samples:

Ten foot samples from 3100' to 3350' and five foot samples from 3350' to 3735' RTD.

Time Log:

One foot intervals from 3100' to 3735' RTD. A copy of the time log is included in this report.

Surf. Casing: Prod. Casing: Port Collar:

8 5/8" @ 227' w/135 sx - 60/40 Pozmix

4 1/2" @ 3734' w/125 sx Set @ 1622' (Anhydrite)

Spud Date: Comp. Date:

2-26-86 3-4-86

API #:

15-163-22,866

Lease #:

6736/1



FORMATION TOPS:	SAMPLE	LOG	MINUS
	<u>DEPTH</u>	<u>Depth</u>	<u>Datum</u>
Anhydrite top (driller's) Anhydrite base " Tanaka	1600' 1649' 3133'	1602' 1638'	+579 +543
Topeka Heebner Shale Toronto Lime	3343' 3367'	3135' 3344' 3368'	-954 -1163 -1187
Lansing Base of the Kansas City Conglomerate	3387 '	3384'	-1203
	3605 '	3606'	-1425
	3627 '	3627'	-1446
Simpson Dolomite Arbuckle Dolomite	3692' .	3686 '	-1505
	3720'	3720 '	-1539
Total Depth	3735'	3732'	-1551

### SAMPLE ANALYSIS OF ZONES OF INTEREST: (corrected to the electric log)

Toronto	3368'-73'	Fine crystalline, sucrosic, saturated, vuggy lime, fair vuggy porosity. Show of free oil and odor. Calculated high in water saturation on log with 10% porosity.
Lansing	3384'-87'	White, fossiliferous lime, spotty stain with fair fossil porosity. Slight show of free oil and odor. Calculated 12% porosity, 33% water saturation. Should be considered for testing prior to abandoning well.
	3426'-30'	Slightly oolicastic, vuggy, white lime, good vuggy porosity, spotty stain. Show of free oil and odor. Calculated 15% porosity, 34% water. Test prior to abandoning well.
	3467'-70'	Fossiliferous, vuggy, white lime, rare to spotty stain. Slight vuggy porosity. Slight show of free oil and odor. Calculated wet on log with 15% porosity. Not worthy of testing.
Simpson Dolomite	3686'-92'	Fine and medium crystalline, vuggy, tan dolomite. Spotty light stain with fair vuggy porosity. Good show of free oil and odor. Calculated 19% porosity, 44% water. Test.
Simpson Dolomite	3702'-05'	Dolomite as above. Calculated 19% porosity, 38% water. Should be considered for testing prior to abandoning well.
Arbuckle Dolomite	3720'-32'	Fine and medium crystalline, buff dolomite, barren with poor intercrystalline porosity. Not worthy of testing.

#### REMARKS:

Structurally, the Lansing top on the #1 Pywell ran 8' high to the Lansing producer to the east two locations, the #1 Nuti (RP Nixon Oper.), and flat with the abandoned Lansing producer one location to the north, the #1 Pywell (Edmiston Oil Co.).

The Simpson Dolomite top on the #1 Pywell ran 16' high to the same #1 Nuti to the east, and Simpson Dolomite was not encountered in the same #1  $^{\circ}$ 

Pywell to the north.

The Arbuckle top on the #1 Pywell ran 13' high to the same #1 Pywell one location to the north. Arbuckle was not encountered in the #1 Nuti, with the total depth minus datum being -1551. The minus datum of the Arbuckle on the #1 Pywell was -1539.

Based on its structural position, shows throughout the Kansas City and Simpson Dolomite, and favorable electric log calculations, 4 1/2" casing was

cemented at 3734' for further testing.

Respectfully Submitted,

Vara hifn

Dan A. Nixon, C.P.G. #3179

DMI A. NEXON 3179

#### DRILLING TIME LOG

3100'-3150'	2-1-2-2-3	2-2-2-2	1-2-2-2-1	3-2-2-1-1	1-1-2-1-1
	1-1-1-1	1-1-1-2-2	3-3-2-3-2	2-2-2-2-2	2-2-3-3-3
3150'-3200'	3-2-2-3-3	3-4-3-2-2	3-2-3-2-2	2-3-2-2-3	3-4-3-2-3
	3-2-3-2-3	2-2-3-2-3	2-3-2-3-2	3-2-4-2-3	3-2-2-2-3
3200'-3250'	2-2-3-3-4	2-2-3-1-1	1-1-1-1-1	1-1-1-1-1	1-1-1-1-2
	2-2-2-2-2	2-2-2-2-1	2-2-2-2-2	2-3-2-2-3	2-2-2-3-3
3250'-3300'	3-3-2-3-3	2-3-3-2-3	3-3-3-4-3	3-3-1-2-2	2-3-2-2-3
	2-3-2-3-4	4-3-3-2-3	3-3-3-2-2	1-2-1-2-1	2-2-3-2-3
3300'-3350'	4-4-3-4-3	3-3-3-2-4	3-3-2-3-3	3-3-3-3-5	3-4-3-3-3
	4-4-3-5-2	3-2-3-2-3	2-4-3-2-3	3-3-3-2-1	2-3-3-3-4
3350"-3400"	2-3-3-4-3	4-3-3-3-3	3-3-3-3-2	3-3-5-5-4	6-4-2-4-4
	4-5-4-5-5	4-3-3-4-3	3-3-4-3-2	3-4-3-4-3	4-4-4-4-4
3400'-3450'	4-4-4-4	4-3-4-4-4	6-5-5-4-2	2-2-2-2-4	3-3-4-3-3
	3-3-3-3-3	2-3-3-3-3	3-4-3-4-4	2-3-3-4-4	3-3-3-4-4
3450'-3500'	3-3-2-3-3	4-3-3-3-3	3-5-4-3-5	4-3-5-2-3	2-3-4-4-3
	4-3-2-4-3	4-5-5-3-4	3-4-4-3-4	3-4-4-3-4	4-3-5-3-4
3500'-3550'	4-4-4-4-3	4-4-3-4-2	4-4-2-2-2	4-3-3-4-3	3-5-4-4-4
	3-4-4-4-4	4-4-4-4-4	4-4-4-3-3	4-3-4-4-3	4-4-4-4-4
3550'-3600'	5-5-4-4-3	3-2-3-2-4	4-5-4-5-5	5-5-5-5-5	4-2-4-4-3
	2-3-5-4-4	4-5-4-5-4	4-4-4-5-5	4-6-5-5-6	4-4-5-4-5
3600'-3650'	4-5-5-4-5	3-4-3-4-3	3-3-3-3	4-4-4-5-4	3-2-4-4-3
	4-5-3-3-4	1-1-3-2-2	1-2-2-3-1	3-2-2-2-2	2-3-2-3-3
3650'-3700'	2-2-3-2-3	2-2-2-2	2-2-2-3-2	2-2-3-3-4	3-3-3-2-4
	4-3-4-3-4	3-4-4-4-5	4-5-4-3-4	3-4-5-5-5	6-6-5-3-4
3700'-3735'	4-4-4-3-5 2-3-4-3-3	4-5-4-4-3 4-3-3-7-4	4-4-4-3-2 3735' RTD	3-3-3-5-4	3-4-2-2-3

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CONTRACT NO.

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DIRECT CORRESPONDENCE TO: JERMS (CIACAS OM.	PAIR T REMITTO
HOUSTON, TX 77210 A SHI DATE OF CONTRACT	PO. BOX 200416 ORDER NO. HOUSTON, TX 77216
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the written consent of an emoci of bo-thylocol government	
PRICE BOOK REF NO. SERVICES/MATERIAL	U/M QUANTITY PRICE EXTENSION
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## **CEMENTING LOG**

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Form No. SR 0502 (Rev. 7/85) Note: Must accompany job ticket.

API 15-163-22,866 NE SE NE SEC.31, T9S-R18W ROOKS COUNTY, KANSAS

LSE/WELL#6736/1

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Moved in Jay-Lan Corporation rotary and rigged up. Set 5 joints of 8 5/8" surface casing 0 227' with 135
02-26-86
                                                                Plug down at 6:30
               sx 60/40 Pozmix 3% gel, 2% c.c.
               D.m.
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02-27-86
           Shut down. To start drilling at 7:00 a.m. 2-28-86.
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```
02-28-86
           Drilled cement plug at 9:00 a.m.
           Drilling ahead at 900' at 3:00 p.m.
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03-01-86
               Drilling ahead at 1760' at 7:00 a.m. Anhydrite 1600'-1649'.
               Elevation 2181 KB.
```

```
03-02-86
           Drilling ahead at 2785' at 7:00 a.m.
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Drilling ahead at 3350' at 7:00 a.m. 03-03-86 Formation Tops: Heebner 3343' 3367' Toronto

Lansing 3387' (-1206)The Lansing top is 5' high to the #1 Nuti (R P Nixon Oper.) the producer 2 locations east, and 3' low to the #1 Pywell (E K Edminston), the abandoned producer one location north. Drilling ahead @ 3450' аt

03-04-86 Short tripping for log at RTD 3735' at 7:00 a.m. 1602'-1638'

Anhydrite Log Tops: 3344' Heebner 3368'

Lansing 3384' (-1203)
The Lansing top is flat with the abandoned producer one location north and 8' high to the producer locations east locations east.

3606' Base Kansas City 3627' Conglomerate

Simpson Dolomite 3686' (-1505) This is 16' high to the producer 2 locations east and 3' low to the dry hole one location west. The abandoned producer one location north contained Simpson Dolomite.

3720' (-1539) Arbuckle Arbuckle did not have any shows and does not produce in the immediate area. Had good show Simpson Dolomite and two zones in the Kansas City. Based on its structural position, shows in the Kansas City and Simpson Dolomite, and favorable electric log

calculations, 4 1/2" casing was cemented for further testing. Geological report to follow.
Ran 92 joints of 4 1/2" production casing to 3734'.
Port collar @ 1622'. Basket @ 1662'. 125 sx 125 Basket 0 1662'. SX Surefill and 500 gals mud sweep. Plug down at 8:30 18' shoe joint. Cement by B J Titan Services.



# R. P. Hixon Operations

### R. P. Nixon, Geologist & Oil Producer

207 West Tweifth

HAYS, KANSAS 67601

Phone: 913-628-3834

#1 PYWELL DAILY COMPLETION REPORT API

NE SE:
LSE/WELL#6736/1 ROOKS

API 15-163-22,866 NE SE NE SEC.31, T9S-R18W ROOKS COUNTY, KANSAS

- Moved in and rigged up Production Drilling Inc's Rig #2. Swabbed hole down to 3250'. Ran Correlation log. TD was found @ 3709'. Perforated with 3' gun loaded 4 per foot at 3687.5' 3690.5' (Simpson Dolomite). Swabbed hole dry. Let set 1/2 hour 5 gal of fluid in hole with no show of oil. Dumped 1 bbl 15% INS Acid on bottom & 30 bbl salt water. To let set overnight.
- 03-20-86

  1700' of fluid in hole. Swabbed hole down. Zone dried up. Perforated @ 3703-05' with 4 holes per foot. Swabbed hole down. Shut down for lunch (1/2 hour) fluid was 1200' from surface. Made one swab test with no show of oil. Set CIBP @ 3490'. Perforated 1 hole LE @ 3385.5' & 3428'. Swabbed hole down. Acidized with 2000 gals of 28% Non E acid and overflushed with 2000 gals SW. To let set overnight.
- O3-21-86 Fluid 1000' from surface. Swabbed hole down. Recovered 40 bbls of 150 bbl load. On 3 hr test fluid decreased to 1/2 bbl/hour, with no show oil. Fluid contaminated with drilling mud. Ran Acid Channel Survey. Had no cement behind pipe from 3400' to surface. Had weak cement from 3400' to TD. Drove CIBP to bottom of hole. To run tools & re-cement 4 1/2" casing in morning.
- Ran 2 3/8" tubing and Baker Model R-4 packer to  $\sim$  3650'. Mixed 50 sx common cement and pumped into 03-22-86 perforations. Zone took all cement on vacuum. more sx commom cement and pumped perforations. Zone on vacuum. Mixed 100 sx common cement and pumped all but 2 bbls of slurry into zone. Staged for 2 1/2 hours. Squeezed perforations @ 2500#'s psi for 15 minutes without pressure loss. Released tool and re-positioned packer between Kansas City zones. Pumped into lower zones communication between zones. Spotted 25sx across zone. Released tool and set 45' above top Kansas City zone and mixed 200 sx of common cement and pumped into zones. Had no lifting pressure or outstanding flow rate. Staged slurry for 2 hours, released tool and re-positioned 60' up the hole. Washed remaining cement from hole and circulated clean. Re-set tool and pressured up to 450#'s psi. Shut in over weekend with no pressure loss.

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#1 PYWELL DAILY COMPLETION REPORT PAGE 2 LSE/WELL#6736/1

API 15-163-22,866 NE SE NE SEC.31, T9S-R18W ROOKS COUNTY, KANSAS

- 03-24-86 Released tool and pulled tubing from hole.

  Swabbed hole down. Drilled 65' of cement and shut down for evening.
- 03-25-86 Drilled 85' of cement to 135'. Shut down for evening.
- 03-26-86 Drilled out 45' of cement and fell through. Ran tools to top of bottom section of cement and drilled out 35' to TD of  $3695'\pm$ . Ran 16 bbls of salt water in hole to prepare for cement bond log in morning. To let set overnight.
- 03-27-86 Ran tools and made 10' more hole. Ran cement bond log by Mercury Wireline and found TD at 3696'. Perforated at 3688'-90' with 4 holes per foot. Swabbed hole down and dried up formation. Ran 2 3/8" tubing and Baker Mod R Packer to treat zone in morning.
- Ran packer to 3691'. Swabbed hole through tubing until dry. Spotted acid across perforations. Set tool at 3661' to treat perforations @ 3688'-90' (Simpson-Dolomite). Treated with 500 gals 15% INS acid. Ended treatment with 250-300#'s psi with flow rate of 1 bbl per minute, on a vacuum in 4 minutes. Swabbed hole down. On 1st 1/2 hour test zone produced 75' of fluid 35-40% oil, on 2nd 1/2 hour test zone produced 150' of fluid 100% oil. Retreated with 1000 gals 15% INS acid and overflushed with 1000 gals salt water. To let set over Easter weekend.
- Fluid down 900' from surface. Swabbed well down through tubing. Ran one 1/2 hour test, zone produced 250' of fluid with very good show of oil. Recovered 15 bbls of 48 bbl load. Released tool and laid down tubing. Swabbed well down through casing. On 2 hour swab test zone produced 2 bbls of fluid per hour 50% oil and 50% spent acid water. Set CIBP @ 3480'. Perforated with 1 hole LE @ 3385.5 & 3428' (Lansing-Kansas City). Acidized with 1500 gals 28% Non E acid and overflushed with same amount of salt water. To let set overnight.

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#1 PYWELL DAILY COMPLETION REPORT PAGE 3 LSE/WELL#6736/1

API 15-163-22,866 NE SE NE SEC.31, T9S-R18W ROOKS COUNTY, KANSAS

04-01-86 Fluid down 700' from surface. Swabbed hole down. Recovered 65 bbls of 122 bbl load. On 4 hour test zones produced 3 1/2 bbls of fluid per hour, 75% oil and 25% spent acid water. Rigged up tools and drove CIBP to bottom (3696'). Perforated out LE shots with 2' guns loaded 2 per foot. To have cable tools hang well on pump. Pump test to follow.

04-08-86 Put on pump.

05-09-86 <u>TOP STAGE</u>

Express Well Service Inc ran Pengo Bridge plug and set @ 1736'. Tested bridge plug. Opened Port Collar @ 1622' and cemented 4 1/2" annulus with 400 sacks of 50/50 Pozmix, 6% gel. Cement did circulate. Retrieved bridge plug and ran well back in.