

plugged 9-30-87

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

API NO. 15-.....15-051-24,501-00-00.....  
County.....ELLIS.....  
SW SW SW Sec 19 Twp 13 Rge 17 X East West

Operator: License # .....5252.....  
Name R. P. NIXON OPERATIONS.....  
Address 207 W. 12TH.....  
HAYS KS 67601.....  
City/State/Zip .....

330 ..... Ft North from Southeast Corner of Section  
4950 ..... Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Purchaser.....NA.....

Lease Name.....FRANCIS 1.....

Operator Contact Person DAN A. NIXON.....  
Phone 913-628-3834.....

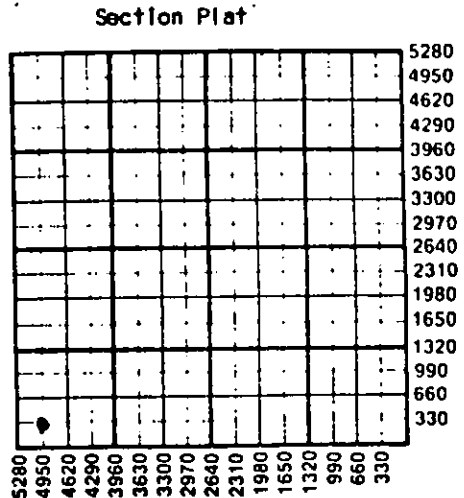
Field Name.....YOUNGER NW.....

Producing Formation.....NA.....

Contractor: License # .....5655.....  
Name SHIELDS DRILLING COMPANY INC.....

Elevation: Ground.....2134.....KB.....2141.....

Wellsite Geologist DAN A. NIXON.....  
Phone 913-628-3834.....



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

Section Plat  
WATER SUPPLY INFORMATION  
Disposition of Produced Water: Disposal  
Docket # ..... Repressuring

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

WELL HISTORY  
Drilling Method:  
X Mud Rotary Air Rotary Cable  
8-5-87 8-12-87 9-30-87  
Spud Date Date Reached TD Completion Date  
3721  
Total Depth PBSD

Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717  
Source of Water:  
Division of Water Resources Permit #.....  
Groundwater.....Ft North from Southeast Corner (Well) .....Ft West from Southeast Corner of Sec Twp Rge East West  
Surface Water.....Ft North from Southeast Corner (Stream, pond etc).....Ft West from Southeast Corner Sec Twp Rge East West  
Other (explain).....  
(purchased from city, R.W.D. #)

Amount of Surface Pipe Set and Cemented at 204 feet  
Multiple Stage Cementing Collar Used? X Yes No  
If yes, show depth set.....1418.....feet  
If alternate 2 completion, cement circulated from.....feet depth to.....w/.....SX cmt  
Cement Company Name .....  
Invoice # .....

PLUGGED WELL 9-30-87

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 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. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

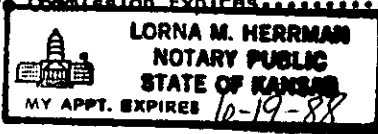
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature .....  
Title OPERATOR Date 10-27-87

Subscribed and sworn to before me this 27 day of OCTOBER 1987

Notary Public Lorna M Herrman  
Date Commission Expires 6-19-88

K.C.C. OFFICE USE ONLY  
F Letter of Confidentiality Attached  
C Wireline Log Received  
C Drillers Timelog Received  
Distribution  
KCC RECEIVED SWD/Rep NGPA  
STATE CORPORATION COMMISSION Other (Specify)  
OCT 29 1987  
10-29-1987  
CONSERVATION DIVISION  
Form ACO-1 (7-84)



Sec 19, Twp 13, Rge 12

Operator Name **R P NIXON OPERATIONS** Lease Name **FRANCIS** Well # **1**

Sec. **19** Twp. **13** Rge. **17**  East  West County **ELLIS**

WELL LOG

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  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

Name Top Bottom

SEE ATTACHED GEOLOGICAL REPORT

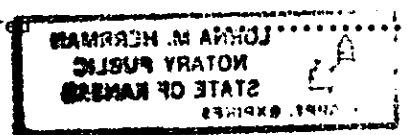
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
SURFACE		8 5/8"		204	60/40PM	150	2%gel 3% c.c.
PRODUCTION		4 1/2"		3719	SUREFILL	125	
					MUDSWEEP	150 gal	
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
	SEE ATTACHED REPORTS						
TUBING RECORD				Size	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First Production				Producing Method			
NA				<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....			
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) .....  
 Used on Lease

Dually Completed  
 Commingled



## GEOLOGICAL REPORT

*Dan A. Nixon*

15-051-24501-00-00

PETROLEUM GEOLOGIST

WELL #1 LOCATION SW SW SW of Section 19, T13S-R17W Ellis County, Ks. LEASE Francis

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

Contractor: Shields Drlg. Co.  
Box 709  
Russell. Ks. 67665

Elevation: American Elevations  
Ground level: 2136'  
Rotary bushing: 2141'  
All measurements are from  
the rotary bushing.

Samples: Ten foot samples from 3070' to  
3360' and five foot samples  
from 3360' to 3720' RTD.

Time Log: One foot intervals from 3070'  
to 3720' RTD. A copy of the  
time log is included in this  
report.

Surf. Casing: 8 5/8" @ 204' w/150 sx - 60/40 Pozmix  
Prod. Casing: 4 1/2" @ 3719' w/125 sx Surefill  
Port Collar: Set @ 1429'

Spud Date: 8-5-87  
Comp. Date: 8-12-87

API #: 15-051-24,501  
Lease #: 2613/1

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CONSERVATION DIVISION  
Wichita, Kansas

15-051-24501-00-00

<u>FORMATION TOPS:</u>	<u>SAMPLE DEPTH</u>	<u>LOG DEPTH</u>	<u>MINUS DATUM</u>
Anhydrite top (driller's)	1373'	1374'	+767
Anhydrite base "	1411'	1411'	+730
Topeka	2931'	2931'	-990
Heebner Shale	3387'	3389'	-1248
Toronto Lime	3407'	3409'	-1268
Lansing	3435'	3236'	-1295
Base of the Kansas City	3671'	3673'	-1532
Arbuckle	3683'	3682'	-1541
Total Depth	3720'	3721'	-1580

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

Topeka	3176'-3186'	Finely developed, oolitic, barren lime, good oolitic porosity. Not worthy of testing.
	3366'-3373'	Chalky, fossiliferous, white lime, slight fossil porosity, rare spotty stain. Had slight show of free oil and odor in wet samples. Should be considered for testing prior to abandoning well.
Toronto	3410'-3416'	Cherty, tight, grey lime, spotty stain. Show of free oil in wet samples. Calculated 16% porosity, 35% water. Test.
Lansing	3461'-3466'	Oolitic, vuggy white lime, spotty stain, good oolitic and vuggy porosity. Had slight show of free oil and odor in wet samples. Calculated 13% porosity, 24% water. Test.
	3482'-3486'	Fossiliferous, white lime, good vuggy porosity, spotty stain. Had slight show of free oil and odor. Calculated 9% porosity, 43% water. Test.
	3513'-3520'	Oolitic, white lime, good oolitic porosity, spotty stain, trace of saturated stain. Good show of free oil and odor. Calculated wet on log. Not worthy of testing.
	3528'-3534'	Oolitic, white lime, good oolitic porosity, spotty stain with occasional good saturation. Calculated 12-16% porosity, 23-26% water. Test.

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3610'-3616'

Fine crystalline grey lime, tight, rare spotty stain. No show of free oil or odor. Not worthy of testing.

Arbuckle

3682'-3690'

Sucrosic, fine crystalline, buff dolomite, poor intercrystalline porosity, barren. Had very slight show of free oil, no odor in wet samples. Calculated 14% porosity, 37% water. Not worthy of testing regardless of these calculations.

3690'-3721'

Dolomite as above, barren. Occasional medium crystalline, vuggy buff dolomite, good vuggy porosity. Not worthy of testing.

REMARKS:

Structurally, the Lansing top on the #1 Francis ran flat to the abandoned Lansing producer to the east one location, the #1 Madden A (Clinton Oil), and 3' high to the dry hole one location north, the #1 Staab (Ernst & Steinle).

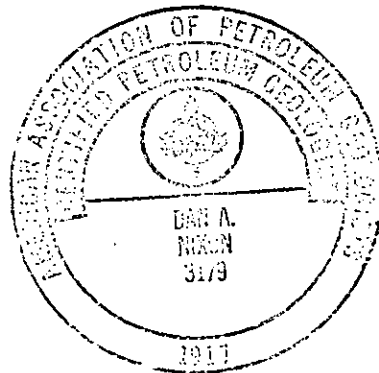
The Arbuckle top on the #1 Francis ran 14' high to the same #1 Madden A to the east. Arbuckle was not encountered in the dry hole to the north.

Because of its favorable structural position to surrounding abandoned production, and shows throughout the Kansas City which calculate favorable on the electric log, 4 1/2" casing was cemented at 3719' for further testing.

Respectfully Submitted,

*Dan A. Nixon*

Dan A. Nixon, CPG #3179



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15-051-24501-00-00

DRILLING TIME LOG

3070'-3100'	4-4-4-3-2	3-4-3-2-3	2-2-2-2-2	3-2-2-2-2	2-1-4-4-4 1-2-3-3-2
3100'-3150'	2-1-2-1-2 4-2-3-2-3	2-2-2-2-2 3-6-5-4-3	2-1-2-2-1 2-3-3-3-2	2-2-1-2-1 2-1-3-3-3	2-1-2-1-2 4-4-3-4-4
3150'-3200'	3-3-3-3-4 1-1-2-1-2	3-3-5-4-4 2-2-2-3-5	3-3-4-4-4 4-5-4-6-4	4-5-5-4-5 6-5-6-5-4	6-4-3-4-1 3-3-4-3-3
3200'-3250'	3-4-4-4-5 3-3-2-2-2	5-5-4-4-3 3-4-3-3-1	3-2-2-1-2 3-3-2-2-2	3-4-4-4-3 2-1-1-1-1	4-4-3-4-3 1-2-1-1-2
3250'-3300'	2-2-3-4-1 6-7-7-9-6	2-3-3-4-5 6-5-5-5-5	4-4-4-3-3 4-5-5-5-7	4-6-5-7-8 7-6-7-7-8	6-5-3-5-6 6-3-4-3-3
3300'-3350'	3-5-5-6-6 5-6-7-6-7	5-7-8-6-3 5-7-7-7-6	4-2-2-6-8 6-6-6-8-7	6-5-6-4-4 5-6-7-5-3	6-7-7-6-5 4-6-5-9-6
3350'-3400'	4-5-3-6-7 8-6-7-6-6	8-5-5-4-4 7-7-6-7-7	6-7-7-6-6 8-7-5-3-2	7-6-6-7-7 2-6-9-8-7	8-7-8-6-7 3-3-4-4-4
3400'-3450'	4-3-4-3-4 4-4-4-4-4	3-4-4-4-5 3-2-3-3-4	5-4-5-5-4 6-6-7-7-4	7-7-7-6-4 5-6-3-2-1	7-8-7-6-4 2-2-4-5-5
3450'-3500'	5-4-4-4-3 4-3-4-5-6	4-3-5-4-5 7-5-6-8-6	4-3-4-2-5 6-7-8-7-7	6-7-5-3-4 9-7-8-7-7	4-3-7-6-6 5-3-4-5-4
3500'-3550'	7-4-3-4-7 3-1-2-2-6	8-3-4-4-4 5-4-4-7-10	5-4-4-3-2 9-9-10-10-9	3-3-3-3-5 8-9-7-5-8	6-5-4-4-4 9-8-9-10-9
3550'-3600'	8-8-8-8-8 5-6-8-8-9	7-9-10-8-5 9-8-7-6-8	4-5-4-4-5 9-6-5-4-5	5-7-12-10-10 5-8-7-7-9	9-10-10-9-6 6-7-9-6-7
3600'-3650'	7-7-7-6-6 4-5-5-6-7	5-4-4-5-4 7-7-6-7-7	6-6-7-6-6 6-6-6-6-6	6-6-6-7-7 5-7-7-6-6	6-7-7-4-4 6-6-6-7-7
3650'-3700'	5-7-7-7-7 4-4-5-5-4	7-6-7-6-7 5-5-5-7-5	6-6-5-6-4 6-3-4-2-2	4-4-4-5-6 2-2-2-3-3	6-4-4-3-4 4-4-5-5-4
3700'-3720'	6-4-6-2-4	3-4-4-5-5	3-4-6-5-7	3-4-6-6-4	3720' RTD

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CONSERVATION DIVISION  
Wichita, Kansas

# R. P. Nixon Operations

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

207 West Twelfth

HAYS, KANSAS 67801

Phone: 913-828-3834

### #1 FRANCIS DAILY DRILLING REPORT

API 15-051-24,501

LSE/WELL#2613/1

SW SW SW SEC. 19, T13S-R17W  
ELLIS COUNTY, KANSAS

- 08-05-87 Moved in Shields Drilling Company Inc rotary tools and rigged up. Set 207' of 8 5/8" surface casing at 204' with 150 sacks of 60/40 Pozmix cement, 2% gel and 3% c.c. Plug down at 8:00 p.m. Elevation 2141' K.B.
- 08-06-87 Started drilling at 8:00 a.m. Drilling ahead at 209' at 9:00 a.m.
- 08-07-87 Drillers Anhydrite Top: 1373'-1411'.  
Drilling ahead at 1845' at 7:00 a.m.
- 08-08-87 Drilling ahead at 2780' at 7:00 a.m.
- 08-09-87 Drilling ahead at 3280' at 7:00 a.m.
- 08-10-87 Drilling ahead at 3417' at 9:00 a.m.  
Elevation: 2141' K.B.  
Formation Tops: Heebner 3387'  
Toronto 3407'  
Lansing 3435' (-1294')
- The Lansing top is 1' high to the abandoned Lansing producer 1 location east and 4' high to the abandoned Lansing producer 2 locations east.
- 08-11-87 Drilling ahead at 3587' at 7:00 a.m.
- 08-12-87 Electric Log Tops: Topeka Lime 3146'  
Heebner Shale 3389'  
Toronto Lime 3409'  
Lansing - KC 3436' (-1295')  
Base of KC 3673'  
Arbuckle 3682'  
RTD 3721'
- 4 1/2" production casing was cemented at 3719' with 125 sacks of surefill & 500 gals of mudsweep ahead of cement. Port Collar at 1418'. 15 sx of cement in rathole and 10 sacks in mouse hole. Plug down at 3:30 p.m. Float did hold. The well had 4 good shows in the Lansing plus the Toronto Lime. Geological and completion reports to follow.

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Wichita, Kansas

R. P. Nixon, Geologist & Oil Producer

207 West Twelfth

HAYS, KANSAS 67601

Phone: 913-628-3834

#1 FRANCIS DAILY COMPLETION REPORT

API 15-051-24,501

LSE/WELL#2613/1

SW SW SW SEC. 19, T13S-R17W  
ELLIS COUNTY, KANSAS

- 09-01-87 Moved in Jay-Lan Corporation Rig 4 double drum and rigged up. Swabbed well down and ran correlation log. Found fluid level @ 3240' and T.D. at 3650'. Perforated with a 3' gun loaded 4 shots per foot @ 3528-31', (G Zone). Let set overnight.
- 09-02-87 Swabbed hole down. Acidized with 500 gals of 15% Non-E acid and overflushed with 3 bbls of salt water. Swabbed hole down. Perforations produced 4 bbls of fluid per hour @ 50%-75% very heavy crude oil. Retreated with 1000 gals of 28% Non-E acid and overflushed with 1000 gals of salt water. Perforated with Limited Entry guns at 3463' & 3483'. Ran tubing and 4 1/2" Loc-set retrievable bridge plug to 3500' and set. Laid out tubing and swabbed hole down. Acidized with 2000 gals of 28% Non-E acid and overflushed with 2000 gals of salt water. To let set overnight.
- 09-03-87 Swabbed hole down. Recovered 120 barrels of 150 barrel acid load and flush. On 2 hour test zone produced 5 barrels of fluid per hour @ 5% oil. Ran tubing and catcher to retrieve Loc-set plug from hole. Laid down tubing and Loc-set plug. Perforated @ 3410'-12' with 2' gun loaded 4 shots per foot. Also shot out Limited Entry zones and shut down for evening.
- 09-04-87 Ran tubing and Loc-set packer to 3394' and set. Pulled tubing and swabbed hole down. Fluid was 1900' from surface. Acidized with 500 gals of 15% Non-E acid and overflushed with 3 barrels of salt water. Let set 15 minutes. Swabbed hole down. Had slight show of oil off bottom. 1st 30 minute test - 1.1 bbls of fluid with no show of oil. On one hour test - .16 bbls of fluid with no show of oil. Ran tubing and catcher to retrieve plug. Shut down for Labor Day weekend.
- 09-08-87 Laid tubing and catcher out. Plug slipped off, 1000' from bottom. Went into hole with tubing and catcher and retrieved plug. Laid out tubing and plug and swabbed hole down. Fluid was 1500' from surface, started showing oil @ 2800'. Swabbed back 78 bbls of total fluid 15-20% oil. 1st 1/2 hour test - 4 bbls TF @ 19% oil. 2nd 1/2 hour test - 4 bbls TF @ 7.7% oil. To resume testing and shut down for evening. To check overnight fillup in morning.

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*R. P. Nixon Operations***R. P. Nixon, Geologist & Oil Producer**

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**#1 FRANCIS DAILY COMPLETION REPORT**

API 15-051-24,501

LSE/WELL#2613/1

PAGE 2

SW SW SW SEC. 19, T13S-R17W  
ELLIS COUNTY, KANSAS

09-09-87 Overnight fillup was 1300' of fluid, 200' of oil and 1100' of flush and spent acid water. On 4 hour swab test, all zones made 8 bbls of fluid per hour, 20 to 37% oil. Run tubing and rods. To put on pump. Pump test will follow.

**RE-WORK REPORT**

09-24-87 Moved in Jay-Lan Corporation Rig #4 and rigged up. Pulled rods, pump and tubing from hole. Perforated w 2' gun loaded 4 shots per foot @ 3511'-13' & 3367'-70'. Ran Baker Model R-4 plug and packer to 3500'. Let set overnight.

09-25-87 Set plug @ 3520' and spotted acid across perforations. Set packer @ 3494' and treated zone with 500 gals of 15% acid. Overflushed with 2 bbls of salt water. Had no pressure with flow rate of 4 bbls per minute. Shut down on vacuum. Released tools and set plug @ 3386', spotted acid and set packer @ 3356. Zone took acid after initial pressure of 200#'s PSI. Flow rate was 2 bbls per minute at 50#'s psi. Let set 30 minutes, swabbed hole thru tubing. After swabbing hole down, had 1/2 hour test of 450' of fluid with no show of oil. Pulled plug and packer from hole. Swab tested hole through 4 1/2" casing, 3300' down to fluid. Swabbed hole down. Recovered 16 bbls of fluid with a slight show of oil and spent acid water. 1st 1/2 hr test: 2 bbls of fluid @ 1% oil. 2nd 1/2 hour test: 2 bbls of fluid @ 1% oil.

09-28-87 Had 8.2 bbls of fillup over weekend, 1% oil. Ran 2 1/2 hour tests, recovered 3.75 bbls per hour @ 1% oil. To pull casing and plug and abandon well.

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