API NO. 15-

189-21,443 100-00

STATE CORPORATION COICHISSION OF KANSAS OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM	CountySte	evens	
ACO-1 WELL HISTORY	50' F		East
Operator: License #04782	i		R4S Rge. 36 X West
Name: Ensign Operating Co.		 .	
	7390	(WOTE: Locate we	outheast Corner of Section ell in section plat below.
Address 621 17th Street	Lease Name	Walkemeyer _	_ Well # _ <u>1-4</u>
Suite 1800	Field Name		\$\footnote{\pi}
city/state/zip Denver, Colorado 80293	Producing Formati		
Purchaser: Mobil into Northern Natural Gas Co. (WOPL)	. .		кв3070'
Operator Contact Person: Jerry Simmons			PBTD 6599 '
Phone (303, 293-9999	Total Depth	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5280 L
Contractor: Name: H-30 Drilling Inc.			4950 4620
License: 5107			4290 3960
Vellsite Geologist: Fdwin H. Grieves			3630
Designate Type of Completion			2970 2640
X New Well Re-Entry Workover			2310 1980 1650
Oil SWD Temp. Abd. X Gas Inj Delayed Comp. Dry Other (Core, Water Supply, etc.)	-	╂╋╃┽┦┼┼┼┼	1320
			990
	(H	╀╂┼┼┼	330
If OWANO: old well info as follows: Operator:	85.8	25.50 25.50	A J-I
Well Name:			ted at Fee
Comp. DateOld Total Depth	Multiple Stage C	ementing Collar Used	? Yes _X N
Drilling Method:	· .		
X Hud Rotary Air Rotary Cable	1	,	irculated from
9/9/90 9/30/90 10/24/90 Spud Date Reached TD Completion Date	1		sx cut
INSTRUCTIONS: This form shall be completed in triplicate a	1		
Derby Building, Wichita, Kansas 67202, within 120 days		•	82-3-130, 82-3-107 and
82-3-106 apply. Information on side two of this form will			
			2 months. One copy of all
wireline logs and drillers time log shall be attached with form with all plugged wells. Submit CP-111 form with a			
conversion of a well requires filing of ACO-2 within 120 da			
All requirements of the statutes, rules and regulations promu			try have been fully complie
with and the statements herein are complete and correct to 1	:he best of my knоw	ıledge.	*
Signature Sanni Smith		K.C.C. OFFI	CE USE ONLY
Title Thirty Technician Date	10/24/90	F Letter of Co C Wireline Log	onfidentiality Attached
Subscribed and suprinto before me this24 day of00	tober WED	C Drillers Tim	nelog Received
GOPENELOPE J.	OF THE FIRST COM ME	SSION RCC Distr	ribution SWD/Rep NGPA
Norrain Public Termelose of the	200 0 1000	KG\$	PlugOther
Date Commission Figure October 21, 1991	2. 86.90 _		(Specify)
· ου βυχών	Willy Action of the Street		

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SIDE TWO

Operator NameEns	ign Operat	ing Co	Lease Name	Walkeme	eyer	Well #	1-4
A 240	. 26	East	County	Stevens	s	. .	
Sec. 4 Twp. 345	Rge30	X West				•	
INSTRUCTIONS: Show interval tested, tim hydrostatic pressures if more space is need	e tool open a s, bottom hole i	nd closed, flowing a temperature, fluid re	and shut-in pres	sures, wheth	ner shut-in pre	ssure reached	static level
Drill Stem Tests Take (Attach Additiona		X Yes No	,		Formation Desc	ription	_
Samples Sent to Geol	ogical Survey	X Yes . Ho			Log 🗓	Sample	
Cores Taken		Yes X No	Name		Тор	Bottom	
Electric Log Run (Submit Copy.)		X Yes No		See A	ittached		
See Attache	d						
CASING RECORD W 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 Tyr	e and Percent Additives
Conductor	30"	20"		40'	4 Yds grou	t	
Surface	12-1/4"	<u>8-5/8"</u>	24#	1770' _	Lite Wt. Class "H"		2% cc
Production	7-7/8"	4-1/2"	10.5#	6644'	Class "H"	1 I -	% KC1 .25% CI
Shots Per Foot	PERFORATION Specify Footage	N RECORD ge of Each Interval	Perforated	Acid,	Fracture, Shot, d Kind of Mater	Cement Squeez	
1 JSPF	6174, 86, 25, 28, 32	87 <u>, 6202</u> , 10-1 ', 36'	3, 20, 23-	Acidized 2% LC 2.2¢ HA 2% KCl w	Surf 300 1-60: Disp1	190120+2_V	C1 6174-6236 bls
				Frac: 81	,800 gals 7	0% Quality	<u>6174-62</u> 36'
					& 137,800#	_/U/4U_mes	n_sd
TUBING RECORD	Size 2-3/8"	Set At 6167'	Packer At	Liner Run	☐ _{Yes} 🔀		
Date of First Produ	ction Produci	ng Method X Flowing	Pumping G	as Lift 🗌	Other (Explain)		
Estimated Production Per 24 Hours		Bbls. Gas	Mcf Wate				Gravity N/A
Disposition of Gas:		M	THOD OF COMPLET	MOI		// · / Prod	uction Interval
X vented Sold		Lease Dopen	Hole X Perfo	ration 🗌	Dually Complete	d Comming	led
(If vented, su	ibmit ACO-18.)	Othe	r (Specify)			<u>Horr</u>	OW

ORIGINAL

General Well Information

Operator: Ensign Operating Company

Well Name: No. 1-4 Walkemeyer, API No. 15-189-21443

Location: 330' FSL & 2590' FEL (SW SW SE) Section 4-T34S-R36W

County: Stevens

State: Kansas

Field: Walkemeyer SW Ext.

Elevation: 3058' GL, 3066' DF, 3068' KB

Date Spudded: September 9, 1990, 4:30 p.m.

Date Drilling Completed: September 23, 1990 6:59 p.m.

Status: Ran Production Casing to Complete Lower Morrow

Drill Stem Tests:

DST #1 Lower Morrow Sdst 6185 to 6230
IQ Strong blow to bottom of bucket immediately
ISI Bled off blow - no return
FO Strong blow (to bottom of bucket immediately)
decreased to weak (7" into bucket)

Rec: 20' Mud BHT 139° F IHP 3068# IFP 41 to 41# in 15 min.

ISIP 41# in 60 min.

FFP 41 to 41# in 60 min. FSIP 1649# in 120 min.

FHP 2919#

Sampler Recovery
Total 2000 ml.
100 ml. mud w/few specks light green oil
1900 ml. gas

Pressure 1450#

Trilobite Testing Company, Rod Steinbrink, Testor

DST #2 Lower Morrow Sdst 6187 to 6287

IO Strong Blow bottom of bucket immediately
ISI Bled off pressure blow-back of bottom of bucket 7 min.

FO Strong blow bottom of bucket immediately blding.

FSI Bled off pressure blow back weak surface blow increasing to bottom of bucket GTS 1 hr 10 min into FSI

Rec: 80' gassy pit mud 18% gas 82% mud romanion for the strong form of the strong form of

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ORIGINAL

BHT ? ° F IHP 3018# IFP 72 to 72# in 15 min. ISIP 509# in 60 min. FFP 83 to 93# in 60 min. FSIP 1361# in 120 min. FHP 2949#

Sampler Recovery
Total 2000 ml
1200 ml gas
800 ml mud
Pressure 1250#

Trilobite Testing Company, Roger F. Sells, Testor

Logging Program: Atlas Wireline Service, Dirk Becker, Engineer

- 1) Dual Induction Focused Log w/Gamma Ray & SP TD to surface casing (6744 to 1770) w/Gamma Ray continued to ground level
- Compensated Z-Densilog Compensated Neutron (6744 to 2500)
- 3) Minilog Gamma Ray (6744 to 2500)

Mud Properties: See List #1, Page 4

Mud Logging: Holmes Logging Service - unmanned unit

1770' to Total Depth

Lost Circulation: Approx. 80 Bbls. at 4014'

Contractor: H-30 Rig #1

John Schlenz, Tool Pusher

Deviation Surveys:

9-11-90	1770'	1 1/4°
9-13-90	3300'	Miss Run
9-13-90	3332'	3/4°
9-14-90	3910'	1 1/4°
9-15-90	4470'	1°
9-16-90	4900'	1°
9-17-90	5290'	1 1/4°
9-18-90	6070'	1 1/4°
9-19-90	6230'	2°
9-23-90	6750'	2 1/4°

Bit Record:

Bit A 12 1/4" Smith S-1 in at 40' out at 1770' Bit #1 7 7/8" Hughs ATJ-11C in at 1760' out at 5290' Bit #2 7 7/8" Hughs J-22S in at 5290 out at TD

STATE COCCORATE O COMMISSION

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Formation Tops

Ensign #1-4 Walkemeyer SW SW SE Sec. 4-34S-36W KB 3068

	Sample	Log
Stone Corral	1705	1706 + 1362
Base Stone Corral	1769	1770 + 1298
Wellington	2269	2275 + 793
Herington	2655	2652 + 416
Krider	2716	2712 + 356
Winfield	2775	2769 + 299
Towanda	2835	2825 + 243
Ft. Riley	2897	2890 + 178
Wreford	2986	2979 + 89
Council Grove	3086	3081 - 13
Wabaunsee	3421	3414 - 346
Heebner	4251	4245 - 1177
Toronto	4278	4274 - 1206
Lansing/KC	4315	4309 - 1241
Marmaton	5119	5113 - 2045
Cherokee	5341	5345 - 2277
Atoka ,	5410	5405 - 2337
Morrow Fm	5845	5836 - 2768
Lower Mor. Sd. Zn	6183	6165 - 3097
Chester	62 6 1	6259 - 3191
St. Genevieve	6459	6458 - 3390
St. Louis	6524	6520 - 3452
TD	6750	6744

STATE COLD PEDE TON COMMISSION

DEC 2 6 1930

CONSCI. PATION DIVISION