API NO. 15- 135-23,571-0000

TATE	CORPORA	HOITA	COMMI	3510	W OF	KARSA
OIL	. E GAS	CONSI	ERVATI	ON D	IVISI	ON
	WELL (	OKPLE	HOITE	FORM		
	ACD-1	WELL	. HIST	CRY		
DES	CRIPTIC	M OF	WELL	AND	LEASE	Ē

OIL E GAS CONSERVATION DIVISION	County Ness
ACO-1 WELL HISTORY DESCRIPTION OF WELL AND LEASE	NW - NF - NF - SW Sec. 25 Twp. 17 Rge. 26 X W
Operator: License # <u>5663</u>	2475! Feet from S/N (circle one) Line of Section
Name: Hess Oil Company	3135 Feet from E/W (circle one) Line of Section
Address P.O. Box 1009	Footages Calculated from Nearest Outside Section Corner: NE, SE, NW or SW (circle one)
<del></del>	Lease Name NORTON Well # 1
City/State/Zip <u>McPherson, KS 67460</u> Purchaser:	-Field Name
Operator Contact Person: Bryan Hess	Producing Formation
Phone (316) 241-4640	Elevation: Ground 2412' KB 2420'
	Total Depth 4430' PBTD
Contractor: Name: Mallard JV. Inc.	Amount of Surface Pipe Set and Cemented at Feet
License: 4958	Multiple Stage Cementing Collar Used? Yes X No
Wellsite Geologist: Doug Bellis	If yes, show depth set Feet
Designate Type of Completion New Well Re-Entry Workover	If Alternate II completion, cement circulated from
	feet depth tow/sx cmt.
X Dry Other (Core, WSW, Expl., Cathodic, etc)	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
If Workover/Re-Entry: old well info as follows:	
Operator:	Chloride contentbbls
Well Name:Old Total Depth	Dewatering method used <u>Mudyandrwater, were hauled</u> away for re-use. Location of fluid disposal if hauled offsite:
Deepening Re-perf Conv. to Inj/SWD PBTD Commingled Docket No	Operator Name
Dual Completion Docket No	Lease NameLicense No
Other (SWD or Inj7) Docket No	Quarter SecTwpS RngE/W
8-7-91 8-13-91 8-13-91  Spud Date Date Reached TD Completion Date	County Docket No
Derby Building, Wichita, Kansas 67202, within 120 days of Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on 112 months if requested in writing and submitted with the importable. One copy of <u>all</u> wireline logs and geologist well r	be filed with the Kansas Corporation Commission, 200 Colorado the spud date, recompletion, workover or conversion of a well, side two of this form will be held confidential for a period of form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS ls. Submit CP-111 form with all temporarily abandoned wells.
with and the statements herein are complete and correct to th	gated to regulate the oil and gas industry have been fully complied se best of my knowledge.
Signature	9-20-91   K.C.C. OFFICE USE ONLY  Wireline Log Received
Subscribed and sworn to before me this 20 day of Sept 19 91.	ember Geologist Report Received  Distribution
Notary Public Degan & Hess	PlugOther
Date Commission Expires   NOTARY PUBLIC - State of Bry Appl. Exp. 5-26	

ľ		

		-	,		•
Operator Name Hess Oil Com	pany	Lease Name	Norton	Well	1 ,
Sec. 25 Twp. 17 Rge. 26	East West	County	Ness	, <u> </u>	
INSTRUCTIONS: Show important top interval tested, time tool open hydrostatic pressures, bottom hole if more space is needed. Attach	and closed, flowing and temperature, fluid recove	shut-in pressure	is, whether shut	:-in pressure	reached static lev
Drill Stem Tests Taken (Attach Additional Sheets.)	∑ <sub>Yes</sub> □ No		Formation (Top)	Depth and Dat	tumes Sample
Samples Sent to Geological Survey	□ Yes ☑ No	Hame Anhydnita		Top 1751!	Datum . CCO!
,	□ Yes ⊠ No	Anhydrite Base Anhy		1751' 1781'	+ 669' + 639'
Cores Taken		Heebner	•	3709'	-1289'
Electric Log Run	⊠ <sub>Yés</sub> □⋅ <sub>No</sub>	Lansing		3748'	-1328'
(Submit Copy.)	į	Stark Šha	le	3994'	-1574'
List All E.Logs Run:	!	Base K.C.		4060'	-1640'
LISE ALL E.LUGS AUII:	ļ	Marmaton		4112'	-1692'
DST #1: 4107' - 4125'.	· · · · · · · · · · · · · · · · ·	Fort Scot	t	4256'	-1836'
blow. Rec. 2' mud. IHP	2099, IFP 11-11,	Cherokee	•	4329'	-1909'
ISIP 11, FHP 2091.	}	Mississip	pi	4350'	-1930'
		Dolomite		4369'	-1949'
DST #2: 4123' - 4147'.		Dol. Por.		4384'	-1963'
weak blow - 20 min. 2nd of flushed tool, very weak   5' mud. IHP - 2144, IFP : FFP 22-34, FHP 2140.	blow - 5 min. Rec.	RTD		4430'	-2010'
DST #3: 4336' - 4376'.; weák blow - 10 min. 2nd Rec. 5' mud. IHP 2266,					

998.

CASING RECORD Used  New World 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 Casing	12 1/4"	8 5/8"	. 20#	211'	60/40 Poz	150	2%gel, 3%cc		
		1.,	C HESS	raemon B - alteum Maili	A	`  . 	 		

## 15-135-23571-0000 ORIGINAL GEOLOGIC SUMMARY

Hess Oil No. 1 Norton 50' S of C E/2 W/2 Sec. 25-T17s-R26W Ness County, Kansas Drilling commenced 8-7-91 Drilling completed 8-15-91 Mallard Drilling KB 2420 TD 4430 Driller TD 4427 Logger Wellsite Geologist: Doug Bellis

PECEIVED

SEP 2.4 1991

U. . . . . . . . . . . ION DIVI. Wichita, Kansas

#### SUMMARY

The objective of the Hess No. 1 Norton was the Mississippi Dolomite which produces in the Lazy 17 Field 3500' to the northeast of the No. 1 Norton and in the Aldrich N.W. Field located 4000' south of the No. 1 Norton. Though the well encountered the top of the Mississippi over 20' above the oil-water contact in either of these fields, porous and permeable Mississippi Dolomite was not developed until the oil-water contact. shows in the Marmaton section were evaluated as tight in drill stem tests 1 and 2. Drill stem test 3 indicated the uppermost Mississippi dolomite was tight. Sample shows in the Lansing A calculated water bearing, as were all other Lansing through Mississippi porosity zones. Log Analyses, samples and drill stem tests all indicated the well should be plugged and abandoned. The seismic interpretation upon which the Norton No.1 location was picked, accurately pinpointed the isopach thin between the Anhydrite to Fort. Scott. This internal in the No.1 Norton was the same as several producers in the Lazy 17 field and was 10 to 15' thinner than producers in the Aldrich N.W. Field.

#### EVALUATION OF OIL SHOWS

Lansing A 3762-3776 - This limestone exhibited good oomoldic porosity, with a trace of free oil and a light oil stain, spotty yellow-green florescence and an instant streaming cut. No odor was present in samples. The zone showed averaged 9% porosity and calculates 55 to 70% S.W.

Lansing D 3847 to 3855 - This limestone was offwhite and varies from fine to coarse crystalline. The lime has fair to good intercrystalline porosity, with a trace of vuggy porosity. The zone was colitic in part. There is a light oil stain with a trace of free oil with a good yellow-green There was no cut except in one piece, which florescence. exhibited a weak stream cut. The zone has 8' of 16% porosity which calculates 100% S.W.

Lansing-Kansas City H zone 3920 to 3923 - This limestone is light gray and very fine to fine crystalline in nature. The zone has good intercrystalline porosity, with a trace light oil stain with no florescence or cut. The zone has 11% porosity and calculates 87% S.W.

#### STRUCTURE

The Hess No.1 Norton was compared structurally to the Pickwell No.2 Popp "A" in the SE SE of Section 24 4000' northeast of the No.1 Norton. This well is the closest producing well in the Lazy 17 Field to the No.1 Norton. Logs tops are 3' to 4' high to the sample tops throughout the well due to the 3' of discrepancy between driller and logger total depths.

#### NORTON NO. 1

	SAMP	LE	LOG		RELATIVE POPP "A"	то
ANHYDRITE	1745	(+675)	1751	(+669)	-6	
HEEBNER	3712	(-1292)	3709	(-1289)	- 4	
LANSING A	3744	(-1329)	3748	(-1328)	-2	
STARK	4000	(-1580)	3994	(-1574)	-3	
BASE K.C.	4067	(-1647)	4060	(-1640)	-6	
UP. MARMATON	4116	(-1696)	4112	(1692)	-2	
FORT SCOTT	4260	(-1840)	4256	(-1836)	-2	
BASE CHERO-						
_ · - · · <del>-</del>	4335	(-1915)	4329	(-1909)	-3	
MISSISSIPPI	4353	(-1933)	4350	(-1930)	-14	٠
MISS. DOLO- MITE	4372	(-1952)	4369	(-1949)	-2	
MISS. DOLO- MITE POROSITY	4387	(-1967)	4384	(-1963)	-16	

In summary, the well ran 2' to 6' low from the Anhydrite all the way down to the base of the Cherokee Lime. From this point down, the Norton lost an additional 10' of structure to the Popp on the Mississippi and Mississippi Dolomite Porosity.

Three Drill Stem Tests were conducted. Two tests were carried out in the Marmaton section and one test in the upper Mississippi. All three tests found tight rock, with weak blows which died in the first flow period. All tests were aborted after a short shut-in periood and an attempt to flush the tool.

### 15-135-23571-0000

Kansas City-Basal K 4014 to 4018 - This brown, very fine crystalline limestone has a trace of fair intercrystalline porosity with a trace of light oil stain, with good spotty yellow-green florescence and an instant weak streaming cut. The zone has 13% porosity and calculates 100% wet.

Upper Marmaton 4115 to 4123 - This offwhite to light brown fossiliferous limestone is vuggy in part with good fossil moldic porosity developed in Bryozoans. There is a trace of dead oil stain, with weak florescence and a weak stream cut in one piece. Most of sample appears barren with no show. D.S.T. 1 tested this zone tight and impermeable. Logs show 4 to 6% porosity. Though the logs are highly compensated due to the extreme washout.

Marmaton Viking Zone 4136 to 4144. This light gray, coarse crystalline limestone has good intercrystalline porosity with good vuggy porosity and an excellent show of free oil, spotty yellow-green florescence with an instant milky cut. D.S.T. 2 tested this zone tight. Logs indicate 2 to 5% porosity with the logs again highly compensated due to the extremely washed out hole.

Lower Fort Scott 4272 to 4280 - Light brown dense to coarse crystalline lime, in part oolitic, with fossilmoldic porosity. There is a trace of weak florescence and no cut. The zone has 2' of 5% porosity.

Cherokee Lime 4297 to 4301 - Light gray-brown to white limestone with no visible porosity. The zone is styolitic in part. A trace of light oil stain and yellow-green florescence are noticeable on fracture faces. There is a weak streaming cut present in some samples. The zone has 2' of 3% porosity on logs.

Mississippi Dolomite 4368 to 4378 - Light brown dolomite with good fossilmoldic and vuggy porosity. The rock varies from dense to sucrosic with the sucrosic rock having good intercrystalline porosity. The zone has good oil odor and a good show of free oil, with a light to strong oil stain on the samples, a strong yellow-green florescence and an instant milky cut with a secondary slow stream cut. The upper part of the zone which has 10% porosity tested tight by D.S.T.3. There was 3' of 13% porosity which calculates 65% SW that was untested within this interval. The zone is wet and tight and too thin to be of commercial importance.

Mississippi Dolomite 4384 to 4390 - Light green-gray dolomite with fair to good vuggy porosity, sucrosic in part with fair intercrystalline porosity. The zone is in part cherty. There is a trace of light oil stain with a weak yellow-green florescence, with an instant weak streaming cut. The sample have a fair odor. Logs show 6' of 16% to 19% porosity calculating 60% to 90% SW. The zone is definitely wet.

ORIGINAL

## 15-135-23571-000

- D.S.T. 1 Upper Marmaton 4107 to 4125: 15" open, 15" shut-in. No blow; recovered 2' mud; IFP 10-10; ISIP 10'; flush tool no help.
- D.S.T. 2 Viking Marmaton 4125 to 4147: 30" open, 30" shut-in, 15" open; no final shut-in; very weak blow 20" and died. No blow on second opening; flushed tool with weak blow for 5 minutes; recovered 5' mud; IFP 10 to 20; ISIP 30; FFP 20 to 30; no FSIP taken.
- D.S.T. 3 Mississippi 4336 to 4376: 10" open, 30" shut-in, 10" open; no final shut-in; weak blow died in 10 minutes; no blow on final open period; flush tool with no effect; recovered 5' mud; IFP 10-20; ISIP 991.

ORIGINAL

Phone 913-483-2627, Russell, Kansas Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812 Phone Ness City 913-798-3843

ΝŌ

# ALLIED CEMENTING CO., INC. Home Office P. O. Box 31 Russell Kansas 67665

Sec.	Tw	Range		iled Out	On Location	· Job Start	Finish
Date & 15 5/1 29	5/12	7 66	1.5:4	4.5 MM	tire fin	11300000	8:14:13
Lease Hor Jan Well N	o. /	Locati	on Corp	(tit., 1	Car by Bus	County	State
Contractor 101/19 101/19 101						7	
	T.D	. 4 U.32	>	To Allied (	Cementing Co., Inc. reby requested to rent cer d helper to assist owner	menting equipment and or contractor to do wor	furnish k as listed.
Csg.	Dep	th		Charge To 2	Charles Sil	,	——————————————————————————————————————
Tbg. Size	Dep	th		1 2 0			·
Drill Pipe	. Dep		-	Street		·	<del></del>
a problem		4.	· · ·	City		State	·
Tool	Dep	1,		contractor	was done to satisfaction	and supervision of owne	r agent or
Cement Left in Csg.	Sho	Joint	<u> </u>	Purchase Or	rder No.	,	
Press Max.	Min	imum .	·	<b>x</b> .	men of along	In the	
Meas Line	Disp	olace .		-	and the same of th		<del>,</del> .
Perf.		4'	٠.		CE	MENT	
EQUIP	MENT	· · · · · · · · · · · · · · · · · · ·	<del></del>	Amount Ordered	205 971	Chilel-	
	<del> · · · · · · · · · · · · · · · · · · </del>	<del></del>		· Consisting of	of ·		
No. Cementer		Dance		Common Poz. Mix	•		<del></del>
Pumptrk 63 Helper		SIN	المستمارة مصيد	Gel.		· · ·	·
No. Cementer				Chloride			
Pumptrk Helper Driver		-mail		Quickset '			
Bulktrk 1/200		1 phones		• •			<del></del> -
Bulktrk Driver		•			4.	Sales Tax	•
	İ	- ,	. 11:	Handling	and the state of the		
DEPTH of Job		· i		Mileage '1	., !		,
Reference:	-			1 114		0.1 m .1	
- medano	12.1				<b>)</b> , i + + +1	Sub Total	<del>- (</del>
5 7 5 1) 3/	Blick	, '	· · · · · · · · · · · · · · · · · · ·			<b>7</b>	1111
, , }		Sub Total Tax		Floating Eq		Total	ak .
1 4 4	<u> </u>			Letting the state of the state	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second s	٠,
Remarks: 17 Can 5	<del></del>	Total	to aptem.	11 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rt - Office or		
11000	Λ	he	1419 11 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Propoding Syrid Syri	ing SMM (4)	1 1
1200 8.0	<u>. ر</u>	gar San	it is family	District the great	ta itti ataalisa ka ka	The late and the	• 1
230 40	)	STAT	PECE	VFD		100 100 100	• • •
40 10	·····				IN		7.A 8.3
rathela 15		·	SFP 94	1991	•	•	′′.
mousetule 12	>	. 0	Wichita, K	NUNGIVIL			

الـ 2627, Russell Kansas

ತ್ರತ16-793-5861, Great Bend, Kansas ಮಾಡಲಾಡ್

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

Vio 2927

Range Called Out On Location Job Start Iwp. Finish 6:30 P.m. 9:10 P.m. 7:307m. 9:30~ County Location Ufica Well No. Owner • 3 t t To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. 70 458 S Hole Size 17 \* 1 \* 1 \* 2 \* 1 1 Buch Depth Yess oil company Τo Tbg. Size Depth Street destinct conermity Drill Pipe Depth City ورافياتها والخواص The above was done to satisfaction and supervision of owner agent or Tool Left in Cig. 13th 12th 12th 12th and replacements and the reserve Cement Left in Cag. Shoe Joint 274 B. Garage Purchase Order No. Minimum William baroling প্রত্যাধিক কর্মান কর্মান কর্মান করে। বিশ্ব n Displace 17.5. 13 rich in mor [Tribation of standing for a common Meas Line CEMENT HAR A CALLED AND A CEMENT HAR AND A CALLED AND A C the conduction and the second presence of the Ordered 150 60 the most probabilities and the continuents of the probability and probability and probability and probability in light win in EQUIPMENT thing in hill tour in the court grants Grite Karlak (B. 1874) () Consisting of No. Cementer thank on the same of the same of the same of Common Obstantial Pumptrk Wat 14/61 M Helper of the to think it THE SAIR SHOWS HERE BUILDING Gel. Cementer ' No. Chloride nerizua interior interior access and got the rook of BERT CASSO MaHelper र अवस्थान वाह है अब Pumptrik Noticemed to 6 Dient - 92 House stories Quickset Stile 12 to a section Driver Bulktrk in contain Bulktrk Driver 3 9. \* 9 # 1 1 1 2 Handling in stance in the field in with any on the first bed by taking at the book DEPTH of Job Milesge idea filent de la late e e en en en entre la filencia la filencia de la constanta de la consta Reference: anio Truck Change, a sa situato of abassasta an 地區的海岸地區,並由自由人們的 Sub Total 有的人物 强制系统的代码 自己 5. 新山山西 明史第 196 1071 : Marie Magazine with APPROPRIATION OF A MEDITER STRACTURES 5.500 omany via 2 of MUTEUN RIMARIA ETA ETA C \$1400 (D4.04) Joseph or reference was and らくむ 間動が a talinary not a man with the history . Mingya no athur Sub Total Water of the state of the Floating Equipment Paragraphic of the last of with the same of the same 1400 Tex the design are not the parties of t 4 701 / 31-14-32-4-72 Total ar, e. Chantarrella manga kangangga tangangga pangang nancantarrella sasifa At persebuah sebah menangkang pengabuh pangangan nancantarrella sasifa Market in the Contract of the southerness are not been the con-Cement did Circulate CONPACTOR COMPANION Thank you ali Sair Miletinga kee ij 6,10 \$ 1,70.0