Porm 3	Oll	Office	of State Oil	RVATION : and Gas Su Building	COMMISSION upervisor			5. State I	ease No.	W L
1.	WELL CO				REPORT AND	LOG		6. Unit A	greement	
				(Submi	it in Duplicate, Tr		on State Lands)	N/A	$\sim$	$^{\prime}$ $^{\prime}$
Designate type of cor	mpletion			OTHER		CANCE	DRY L	7. Farm	or Lease No	me T
WELL X WORK	DEE	PEN	BACK C	THER		SAME RESVR	RESVR.	Nuto	racker	D 1/2
2. OPERATOR								8. Well N	°. /	\ \ \
	ips Pet	roleum	Company		<del></del>			9. Reserv	oir	
3. ADDRESS	Dec wh d	n (2nd	Floor	Cacper	WY 82601			j		
4. LOCATIONS (S	how quarte	r-quarter d	escription and	footage me	asurements.)		<b></b>	10. Field ?	y/Dako Name	La
At surface 19	95' FWL	& 1941	' FNL, S					Nuto	racker	
At top prod. into	erval, repor	ted below	/					11. Section	n, Townshi	p and Range
At total depth	T #40 0	09-2263						Sec	17_T3	8N-R75W
AF.		ate Issued	19	Previous Pe	ermit No.	Date Is	sued	12. Count		13. State
	1		30-87	-		1		Conver	se	WY
15. Date Spudded	1	6. Date T.I	D. Reached	17. Date	Compl.	18.	Elevations (DF, RKB, RT, GR,	etc.)*	19. Elev	. Casinghead Fige.
5/31/87		7/15/		1/10	)/88		92 GR, 551	.4 RKB_	<u> </u>	
20. Total Depth (M	D & TVD)		Back T. D. & TVD)	22. I	f Multiple Compl., Iow Many*		23. Intervals Re	•	. 1	Cable Tools
14203' 24. PRODUCING IN	**************************************	THIS CO	4181'	OP. BOTTO	M. NAME (MD &	TVD)	<u>  *}}}-≻  (</u>	) - 14203	1 25.	
Dakota 1										Survey Submitted
Dakota I	40/3 14	1172 ,	naday 13	JOH 137-	10 011					<b></b>
26. TYPE ELECTRI					LSS/GR FM				27.	Was Well Cored
CBL/VDL/	CCL, FD	C/CNL,					onic, Dipmet	er		Yes _
28.				e Size	RD (Report all st Weight Lbs./F		Purpose	i Sector	Cement	Amount Pulled
Casing Size	Dept	119 '		4"	Weight Abelia		Conductor	220 sx	<del></del>	4
9-5/8"		2010'		1/4"	36#		Surface			Poz. tailed
9-3/6		21/11/						w/290 s		d
7''	1	3712	8-	3/4"	26#		Intermediate	2 732 sx		
29.			ER RECORD	1 0 2 0-	Samaan	(367)	30.	TUBING epth Set (MI	RECORD	Packer Set (MD)
Size 511	13403		4203	Sacks Cen		(MD)	Size D	13454	' <u>'</u>	PBR-13454'
	13403	<u>'</u>	14203	130 32	01 0		12 ,70	23 13 1		
31.		PERFOR	ATION RECO	RD	•		32. ACID, SHOT,	FRAC., CEME	NT SQUE	ZE, Etc.
Depth Interval (	(MD)	Hol	es per ft.	Size and T	ype Purpose		Amt. & Kind of M	aterial Used	Dept	h Interval (MD)
14075-14142	1	4 JSI		Ultraje			See Attac	hed		
13944-13948		4 JSI			gun Product		11			
13904-13906 12759-12776		6 JSE 4 JSE		/8" St. HSC gur	bar Product		11			
12/J9-12//0 33.		•			PRODUCTION		•	· · · · · · · · · · · · · · · · · · ·	<del></del>	
Date First Production	Proc	lucing Meth	od (Flowing,	gas, lift, pum	ping—size & type	of pum	p)		1	tus (Prod. or shut-in)
1/10/88				l Shandara Ad	ion Oil, Bbis.		as, Mcf.		Shut-	in w/10BLOTR
Date of Test 1/28/88	Hours Te	ested -	Choke Size	For Test	•	Ĭ	,			(Corr.) 41.3
Flow, Tubing Press.	Casing P	ressure	Calculated	Oil, Bbls.		Mcf.	Wate	er, Bbls.		Gas-Oil Ratio
			24-Hour Rate	16.	1			.2		
M. DISPOSITION None			r fuel, vented,	etc.)	RF		FIVE	Test Wi	tnessed By	
35. LIST OF ATTA			0 4 6		# U mm:	a whole C	Marco D 17 Union Conf.	,		
#32 - Acid	, Shot,	Frac,	Cmt Sque	eze, etc	complete and a	10V.	deteriorism from al	l available rec	ords.	· · · · · · · · · · · · · · · · · · ·
	y that the		ud aveciled H		District St				DATE 9/	28/88
SIGNED	J. Rey			TITLE			GOIL & GAS		DATE	
l	o. Key	*********		+ Res	InstrucCONSFE	WATIA	HOLE & GAS HOLE & GAS	j		
							00	· · · · · · · · · · · · · · · · · · ·		

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests.

and directional surveys, should be attached hereto, to the extent required by applicable Pederal and/or State laws and regulations. All attachments should be listed on this form, see space 36. Space 4: If there are no applicable State requirements, locations on Pederal or Indian land should be described in accordance with Federal requirements.

Spaces 22 and 24: If this well is completed for separate production from more than one zone (multiple-zone completion), so state in space 22, and in space 24 show the producing interval, or interval or interval (sone) to be separately provals, top(s), bottom(s) and name(s) (if any) for only the zone reported in space 33. Submit a separate completion report on this form for each interval (sone) to be separately provals, top(s), bottom(s) and name(s) (if any) for only the zone reported in space 33. Submit a separate completion report on this form for each interval (sone) to be separately pro-Space 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

duced.

Space 29: "Sacks Cement"; Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. Space 33: Submit a separate completion report on this form for each interval (zone) to be separately produced. (See instruction for spaces 22 and 24 above.)

SUDIABY OF SIGNIFICANT WATER ZONES AND OIL AND GAS ZONES (Except	ATER ZONES	AND OIL AND GAS	SONES (Except	as shown on the front hereof)	as shown on the front hereof)		Geologic Markers	
ومن	(No	(Note: If well was directionally drilled,		Show both measure	מומים מומים במים מים מים מים מים מים מים מים מים מים		Depth to Top	Δ.
Kind of Pormation	Depth to T	Depth to Top of Zone	Depth to Bottom of Lone	om or zone	Contents; Productive Rate, if known	Name	Meas. Depth True	True Vertical
_	Moss. Depth	True Vertical	Depth	Mess. Deptn				
						50.1	TOPS	
CORE #1 - 12718-12753	_	t & Recover	ed 35'					
#2 - 12753-12780	_	Cut 27', Recovered 26'	vered 26'		44.44	Teckla	8,2021	
#3 - 13873-13933		t 60', Reco	vered 59'			Teapot Sand	8,732	
						Parkman	9,025	
						Steele	9,700	
		+<				Susses	10,355'	
Disposition:			-			Shannon	10,862	
WY O&G CC Comm	ď					Niobrara	11,992'	
1 - M. Williams, 1370 POB	L370 POB					Carlile	12,532'	
1 - J. A. Landrum	r) R.J. B	A. Landrum r) R.J. Hundt r) D. C. Gill	C. Gill			1st Frontier	12,759'	
1 - T. L. Carten		,		E		2nd Frontier	13,254'	
1 - K. D. Welsh		2 - Read	- Keading & Bates	s, Iulsa		3rd Frontier	13,355'	
1 - G. R. Yarrow		Z - I.C.		a, Inc.		Mowry Sh	13,708'	
1 - J. C. Wormley		1 - ICG	_	Inc.		Muddy Fm	13,894	
1 - P. J. Konkel		2 - Yate		etro/Yates	Setro/Yates Drlg/S.P.Yates/Weed Skull Creek	Skull Creek	13,950'	
2 - Sun Expl., Dallas TX	llas TX	1 - M. K	er			Dakota Fm	14,075'	
1 - Anderman Smith, Denver	n, Denver	1 - Casp	Casper - RC			Fuson Sh	14,143'	
1 - LL&E, Denver					•	Lakota Fm	14,158'	
2 - Marathon, Cody	<b>5</b>							
2 - First Energy, Houston	Houston							
	i							

# ATTACHMENT TO WELL COMPLETION OR RECOMPLETION REPORT AND LOG

#### NUTCRACKER D #1

October 28, 1988

#### #32. Acid, Frac, Cement Squeeze Record

#### Perforated the Dakota Formation, 14075-14142'.

Breakdown Dakota w/244 bbls diesel. Max press 8520 psi, avg press 8150 psi. ISIP 6380 psi, 5 min 5840 psi, 10 min 5670 psi, 15 min 5560 psi. Fraced w/644 bbls gelled diesel w/1000# 100 mesh sand and 10200# of 20/40 ISP. Maximum press 10,5000 psi, avg press 9750 psi. Screened out. Swabbed all but 325 bbls load left to recover.

Set Otis Model WB permanent packer at 14030'.

### Perforated Muddy Formation, 13944-13948'.

Minifraced w/360 bbls gelled diesel, flushed w/85 bbls of #2 diesel. Max press 10200 psi, avg press 9700 psi. ISIP 4320, 5 min 4310, 10 min 4380, 15 min 4260.

## Perforated Muddy Formation, 13904-13906'.

Breakdown w/192 bbls diesel. Maximum press 11560 psi, avg press 9870 psi, min press 8510 psi. Swbd back all but 177 bbls load oil left to recover.

Set 5-1/2" CIPB at 12930'.

#### Perforated Frontier Formation, 12759-12776'.

Breakdown Frontier w/459 bbls HCL acid. Fraced w/1575 bbls wtr w/900,000 cu ft nitrogen and 82,000# sand. Max press 8800 psi, Avg press 1500 psi. ISIP 3135 psi, 5 min 3186, 10 min 3220, 15 min 3246. Rec all load wtr (swabbing). Shut in for pressure build up. Swabbed and flowed well (with 10# salt wtr on backside). Last 24 hr rate - 33 BO, 14 BW.

Milled and fished Bridge Plug at 14067'. Cut off tailpipe at 14055'. Set tbg w/seal assembly in PBR at 13454'.

Swabbed and flow tested well from Muddy/Dakota formation. Last 24 hr rate was 16.6 BF (99% oil). 10 BLO left to rec.