79.1

#### SULMIT IN TEMPLICATE.

(Other instructions on

Form approved. Budget Bureau No. 42-R1425

## UNITED STATES

	GEPARTMEN	T OF THE INT		risey	50-039-3 5. TRAVETENIONATION	AND SERIAL NO.
APPLICATIO			EPEN, OR PLUG	BACK	SF 080539/ 6. IF INDIAN, ALLOTTE	=
1a. TYPE OF WORK	RILL 🔀	DEEPEN [	PLUG BA		7. UNIT AGREEMENT ?	AME
oir ( (	WELL OTHER		SINGLE MULTI	PLE _	8. FARM OR LEASE NA	vt
	DUCTION CORP	•			Hurt 9. WELL NO.	·
P. O. Box 20  4. LOCATION OF WELL (F	8, Farmington, Report location clearly and	New Mexico 8	7499 Roll Cond VE	D -	10. FIELD AND POOL, of West Lindrit Dakota Ext.	h Gallup/
730 FWL -	ne		APS 34 19s		AND SURVEY OR AL	REA N, R3W, NMPM
4. DISTANCE IN MILES  3 Miles sou	and direction from NEA athwest from Oji	REST TOWN OR POST OF	FARMINGTON RESOURCE	AGEMENT F AREA	12. COUNTY OR PARISH	
15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTI OR LEASE (Also to nearest dr)	OSED* T LINE, FT.		. NO. OF ACRES IN LEASE 1040	17. NO. C	Rio Arriba PACRES ASSIGNED HIS WELL 160	l NM
8. DISTANCE FROM PROI TO NEARIST WELL, IN OR APPLIED FOR, ON TH	prilling, completed, A	MARKAY UNIN	. PROPOSED DEPTH 8270 <sup>†</sup>	20. вота	Rotary	
21. ELEVATIONS (Show wh 7320 GL; 733	ether DF, RT, GR, etc.)  2' RKB				ASAP	
3.	, s.thi v I	PROPOSED CASING	AND CEMBNTING PROGR	<b>CR</b> ILLING ( Sualfot t	DERATIONS AUTHORI O COMPLIANCE WITH	ZED ARE ATTACHED
SIZE OF HOLE	SIZE OF CARING	WEIGHT PER FOOT	SETTING DEPTH		SEOSIWALIA NA CENT	
12-1/4"	9-5/8"	36#	200'		f circ. to surfa	
7-7/8"	5-1/ 2"	15.5#	<u>8270'</u>	2050 c	f circ. to surf	ace
		1		1		

Plan to drill a 12-1/4" hole and set 200' of 9-5/8" OD, 36#, J-55 surface casing; then plan to drill a 7-7/8" hole to total depth with gel-water-mud program to test Dakota formation. Plan to run IES and CDL logs. If deemed productive, will run 4-1/2", 10.5#, J-55 casing, selectively perforate, frac, clean out after frac and complete well.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

		• •
signed Sherman E Sac	Geologist	4/23/87 APPROVED
(This space for Federal or State office use)		AS AMENDED
PERMIT NO.	APPBOVAL DATS	APR 24 1987
APPROVED BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY;	NEGET	Katul
CK		AREA MANAGER
	*See Instructions On Reverse Side	

### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

## OIL CONSERVATION DIVISION P. O. DOX 2088

Form C-102 Revised 10-1-78

SANTA FE, NEW MEXICO 8750

		VII DIRIGHEE		the outer hounder	IFF 64 THE RELL	·····	I w II a s
Dugan Pro	oduction Corpo	<del></del>		Hurt			Well 140. 5
Unit Letter M	Section 14	Township 25 No	orth	Hange 3 West	County	o Arriba	
Actual Footoge Loc	ation of Well:	<del> </del>	<del></del>				
990		South	line and	730	frot from th	<ul><li>West</li></ul>	line
Ground Level Elev.	Producing For	motion	. [	∞I			Dedicated Acreoges
7320		Dakota ·		est Lindrith			160 Acres
2. If more th interest an	d royalty).	dedicated to	the well, o	outline each an	d identify th	ne ownership t	hercof (both as to working all owners been consoli-
dated by compared Yes  If answer in this form if	Mo If a "no," list the necessary.)	nitization, for nawer is "yes owners and tr	type of c	etc? onsolidation _ tions which ha	ve actually	been consolid	nted. (Use reverse side of munitization, unitization,
forced-pool	ing, or otherwise)						approved by the Division  CERTIFICATION
R	ECEIVED		RI	ECEIV	/FD		
1	•			,		4 5	certify that the information con- rein is true and complete to the
	APR 24 1981			007,04198	35	1 1	y knowledge and belief.
BUREA	U OF UNIT MANAGE INGTON RESOURCE	MENÏ APEA	BURE	AU OF LAND MAN	Cement	There	nan E Jugan
		SEC. 14		INGTON RESOUR	LE AREA	Position Geold Company Dugar Date 10-3-	Production Corp.
 730' <b>●</b> 990'	Dugan Pro					bate Survey Octob	superician, and the the some  superician, and the the superician  superician, and the superician
			<del></del>			Edgar	L. Risentooner



# dugan production corp.



July 10, 1987

New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, NM 87410

Re: DUGAN PRODUCTION CORP.

Hurt #5

Unit M, 990' FSL - 730' FWL Sec. 14, T25N, R3W, NMPM Rio Arriba County, NM

#### Gentlemen:

This is to certify that deviation tests were run on the captioned well and the following is a true report of those tests:

3/4° @ 124'	1-1/40 @ 1873'	3/4° @ 4016'	1-1/2° @ 6160'
3/4° @ 210'	1° @ 2176'	3/4° @ 4232'	3/4° @ 6660'
3/4° @ 713'	1° @ 2647'	3/40 @ 4480'	1° @ 7137'
1° @ 1119'	1-1/4° @ 3185	3/40 @ 4742'	1-1/4° @ 7636'
1° @ 1369'	1/4° @ 3672'	1-1/4° @ 5260'	3/4° @ 7960
1-1/4° @ 1614'	3/4° @ 3909'	1-1/4° @ 5386'	1/2° @ 8156'
		10 @ 5941!	3 / 110 @ 83 1 1 1

Simperely,

J'm L. Jacobs

RECEIVED

сg

State of New Mexico) ss County of San Juan )

Subscribed and sworn to before me this 10th day of July ,1987

OFFICIAL SEAL
LOIS CUMMISSHAM
CONTRACTOR OF STATE
MARKET MARKET TO THE TOTAL OF STATE
MARKET MARKET TO THE TOTAL OF STATE

Jas Cunningham

Notary Public

5 BLM	1 File			Form approved	
	NITED STATES	SUBMIT IN TRI	!	Expires Augus	
(Formerly 9-331) DEPARTM	ENT OF THE INT	ERIOR verse alde)	5.	LEASE DESIGNATION	AND SERVED NO.
BUREAU	OF LAND MANAGE	MENT		SF 080539A	
	ES AND REPOR		ļ	IF INDIAS, according	, 02
(Do not use this form for proposal Use "APPLICAT	s to drill or to deepen or ION FOR PERMIT—" for a	plug back to a different reserv such proposals.)	olr.		
ī.			7.	UNIT AGREEMENT H	3 K A
STRIO TIES NIO					<del></del>
DUGAN PRODUCTION C	.OBB		**	PARM OR LEASE NA	
3. ADDRESS OF OFERATOR	OKF.	DEACH (FE		WELL NO.	
P O Box 208, Farmingto	n, NM 87499	RECEIVED	) 5	•	
4. LOCATION OF WELL (Report location cless See also space 17 below.)			184	lest Lindrit	n Gallup/
At surface		APR 2 8 1987	_D	akota Ext.	
990' FSL - 730' FWL		PUDEAU DE LAND MANAC	į.	BURYBY OR ARE	A .
330 F2C - 130 FWC		BUREAU OF LAND MANAG FARMINGTON RESOURCE	ADEA	ec.14.T25N	DRW NIMDA
14. PERMIT NO.	15. ELEVATIONS (Show wheth	her of, KT, GR, etc.)	12	COUNTY OF PARIS	H 13. STATE
	7320' GL; 7332	<sup>21</sup> RKB	R	io Arriba	NM
16. Check Appl	rapriate Box To Indica	ate Nature of Notice, Rep	port or Othe	r Data	
NOTICE OF INTENTIC	-	1	THEODEREDS		
			-	REPAIRING	
	LEIPLE COMPLETE	WATER SHUT-OFF	(EXT	ALTERING (	
	ANDON*	PROTING OF ACT	DIZING	ABANDONYE	
REPAIR WELL CH.	ANGE PLANS	(Other) Spud	& Surface	Casing	X
(Other)		(Notk: Rep Completton	ort results of m or Recompletion	naltiple completion Report and Log fo	on Well
17. DESCRIBE PROPUSED OR COMPLETED OPERA proposed work. If well is directional	TIONS (Clearly state all per lly drilled, give subsurface	rtinent details, and give perti- locations and measured and i	neat dates, incli crue vertical de	iding estimated da pths for all market	te of starting any is and cones perti-
tested		rculated 3 <sup>*</sup> bbls cem ce casing 600 psi fo			
				***	-
				er v	•
			A. C.		
			AER:	3 0 1957	
			011 00	<b>*</b>	
			OIL CO		
			, Di	Sī. g	•
.3					
S. I hereby certify that the foregoing is tr.	ue and correct				22 62
SIGNED In I San	TITLE -	Geologist		DATE	27-87
Jim L./Jacobs (This page for Federal or State office of				CEPTED FOR	RECORD
3. 32m 32m 3					
APPROVED ST	TITLE _			PAR R 28	1484
-			r	Akmingjois isso	anue ArtA
				SMA	
	:See Instruct	ions on Reverse Side	RY		

See Instructions on Reverse Side

(Formerly 9-331) DEPART	N 1 File UNITED STATES MENT OF THE INTER NU OF LAND MANAGEMEN		Form approved. Budget Bureau No. 1004-0135 Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO. SF 080539A
(Do not use this form for propo-	ICES AND REPORTS ( Aals to drill or to deepen or plug l ATION FOR PERMIT—" for such p	back to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL GAS OTHER			7. UNIT AGREEMENT NAME
DUGAN PRODUCTION	CORP		8. FARM OR CEASE NAME Hurt
3. ADDRESS OF OPERATOR P O Box 208, Farmingt		RECEIVED	9. WELL NO.
4. LOCATION OF WELL (Report location of See also space 17 below.) At surface		MAY 14 1937	10. FIELD AND POOL, OR WILDCAT West Lindrith Gallup/ Dakota Ext. 11. SEC., T., E., M., OR BLX. AND
990' FSL - 730' FWL	BL F	JREAU OF LAND MANAGEMENT ARMINGTON RESOURCE AREA	Sec. 14. T25N R3W NMPM
14. PERMIT NO.	16. SEZVATIONS (Show whether DE		12. COUNTY OR PARISH 13. STATE
	7320' GL; 7332' R		Rio Arriba   NM
18. Check Ap	propriate Box To Indicate N	lature of Notice, Report, or O	ther Data
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)  17. DESCRIBE PROPOSED OR COMPLETED OPE	PELL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS  RATIONS (Clearly state all pertinent partially drilled, give subsurface located)	(Nors: Report results Completion or Recomplet details, and give pertinent dates.	BEPAIRING WELL  ALTERING CASING  ABANDONMENT®  Sing & Cement  of multiple completion on Well  etion Report and Log form.)  Including estimated date of starting any depths for all markers and sones perti-
See Attached Pag	је		
			Ü 1987
		Oil COI	N. DIV.j

18. I hereby certify that the foregoing is true and correct Geologist (This space for Federal de State office use) MAY 18 1987 APPROVED BY CONDITIONS OF APPROVAL, LF ANY: TITLE .

FARMINGTON NESOUNCE AKÉA BY. YMIM

\*See Instructions on Reverse Side NMOCC

Jim

Reached T.D. on 5-10-87. Driller's T.D.=8350'. Logger's T.D.=8358' Ran  $5\frac{1}{2}$ " casing as follows:

1 - Baker Guide Shoe	0.751
1 - jt. 5½", 15.5# ST&C casing	40.18
1 - Baker Diff. Fill Float Collar	1.50
$44 - jts. 5\frac{1}{2}$ " OD, 20#, N-80-Buttress	
thrd. casing	1848.361
2 - jts. 5½" OD, 15.5#, K-55, 8 Rd	
ST&C casing	83.74
1 - Ind. Rubber Stage Tool	1.25
68 - jts. 5½" OD, 15.5#, K-55, 8 Rd	
ST&C casing	2544.331
1 - Ind. Rubber Stage Tool	1.25
87 - jts. 5½"OD, 15.5#, K-55, 8 Rd	
ST&C casing	3099.13'
17 - jts. 5½" OD, 17#, K-55, 8 Rd	
LT&C casing	695.77
1 - jt. 5½" OD, 20#, N-80 Buttress thro	43.00
TOTAL EQUIPMENT	8359.26
Less Cut Off	<u> 15.26'</u>
RKB to top Casing Head	12.00
CCT 0	
SET @	8356.00'

Cemented first stage as follows: pumped 10 bbls mud flush followed by 295 sacks 50-50 pos plus 2% gel, 64# gilsonite per sack and 4# celloflake per sack (total cement slurry 413 cubic feet). (\*Note: top of cement as calculated from Schlumberger caliper log is 6500'.) Full mud returns during cementing, reciprocated casing while cementing. Bumped plug with 1500 psi - float held OK. Dropped opening bomb. Opened stage tool @ 63801. Circulated with rig pump for 21 hours. Cemented 2nd stage as follows: pumped 10 bbls mud flush followed by 145 sacks 65-35 plus 12% gel and 1 celloflake per sack followed by 295 sacks 50-50 pos +2% gel & 4# celloflake/sack (total cement slurry second stage 694 cubic feet). (\*Note: cement top and stage as calculated from Schlumberger caliper log is 4450'.) Full mud returns while cementing. Closed stage tool with 2500 psi - held OK. Dropped opening bomb. Opened stage tool @ 3835'. Circulated with rig pump for 11 hours. Cemented 3rd stage as follows: pumped 10 bbls mud flush followed by 575 sacks 65-35 plus 12% gel and 1# celloflake per sack followed by 85 sacks 50-50 pos plus 2% gel and ## celloflake per sack (total cement slurry 3rd stage 1378 cubic feet). Had full returns while mixing cement and 40 bbls into displacement. Lost returns while lacking 50 bbls displacement. (\*Note: ran temperature survey and found top of cement to be 1500'). Closed stage tool with 2500 psi. Job complete @ 10:30 AM 5-11-87. Set 5½" casing slips, nippled down BOP, installed Christmas tree and released rig @ 12:30 PM 5-11-87. Total cement slurry used in all 3 stages = 2485 cf.