Form 3160—4 (November 1983) (formerly 9—330)	5 BLM;	1 - I UN	HLB, IITED	RR, STA	DS, f TES	ile = 9 subwr	copi			Budge	approv t Bur s Au	ved. eau No. 1004- gust 31, 1985	0137
(toumstry among	DEPAR	ГМЕ	NT-O	F THI	E INT	ERIOF	?	struct	therin- ions on			TIUN AND BERIA	1. 80
	BU	REAU	OF LAN	ID MANA	AGEMEN	IT RE	CEIV	ED.	e suie,		0.782		
			DECO	ADI ETI	O 1 0	EDORT			-			OTTEE OR TRIBE	NAME
	MPLETION	<u>OR</u>											
1. TYPE OF WEL	.L: on we	🙀	WELL.] bi	kT 🔲 (10 JUL -	/ Af	11:0.	<u></u>	7. PHIT AGE	KEMEN	EMAN T	
L TYPE OF COM	PLETION:	r. —	rite F		· 🗖 🖺	ARMINGTON	RESO	URCE A	REA				
weil txx	OTER L EX	<u> </u>	PACK	_ REN	ra.L.J.	PARMINGTO	H. NE	M. W. XII	"	N. FARM OR		NAMB	
2. NAME OF OPERAT	O, INC.									Duni		<u> </u>	
2. ADDRESS OF OFE										15			
135	Grant Ave	., Sa	anta Fe	, N.M.	8750	1		- •··		10. FIELD A	ND POC	OL, OR WILDCAT	
4. IGCATION OF WE	LL (Report locati	on clear	ly and in a	Cordance	with any	State requir	Dio)* Arrib				k Gallup	
At surface /	45 FSL and	1 /90	rwL,	sec 9	1230 K	/W INPIERI,		nty, N		OR AREA	R., M.,	OR BLOCK AND S	URVET
At top prod. in	terval reported be	low	Same -				004	,		Sec 9 T	2 3 N	R7W NMPM	
At total depth		:	Same								51	,	
			• •	14. PE	RMIT NO.	1	DATE IS	BEUED		12. COUNTY OR		13. STATE	
										Río Ar	riha	New Me	
5. DATE SPUDDED	16. DATE T.D. 1	EACHED	17. DAT	E COMPL.	Ready to	prod.) 18.	ELEVA	TIONS (D	r, RKB, R	T, GR, ETC.)*	19.	ELEV. CASINGHE	AD
5/26/88 ·	6/15/88		6/30/					R 7130				33 ·	
20. TOTAL DEPTH. MD			T.D., MD &	TVD 22	HOW M	HIPLE COMPL.	,/[23. INTE	ETALE TED BY	ROTARY TOO	LE	CABLE TOO!	
6610'		740'·					13	<u> </u>	<u>→ </u>	XX	A. 1 2	5. WAS DIRECTION	MAI.
4. PRODUCING INTE	EVAL(\$). OF TRIS	CONILI	etio#—top	, BOTTOM,	M) BHAK	D AND TVD)"	U	1		£ //	//	BURYRY MADI	
5418¹ - 562	2! Callum				٠.			JUL	ا ئى نى		"	Yes filed OCD	with
1410 - 302			 				0	L CC	· 0 13	00		WAS WELL CORE	
Thermal Dec			mpensat	ed Neu	tron (amma Rav	•	IL CC)N. I	DIV	No	•	
Inclinal Dec	ay Time Bo	5, 00.	CASI	NG RECO	RD (Rep	ort all strings	set in	west PIS	1. 3	2			
CABINO SIES	WEIGHT, LB.	/FT.	DEPTH SE	T (MD)		E SIZE		CEN	ENTING	RECORD		AMOUNT PUL	TED .
8 5/8"·	23# ·		208	720	12 坛'	" · 158 Sack's Cla				ass B ·			
4 1/2" .	J-55 11				7 7/8	7 7/8" 1678 Sack's C			's Cl	lass H·		.	 `
					<u> </u>		<u> </u>			NIDENA DEC	085	<u> </u>	
29 .	LINER RECORD			BACKE C		SCREEN (MD) SIZE		TUBING RECORD		PACKER SET (MD)			
SIII	()	#U110	M (MD)	BACKS C			<u></u> -	2 3/8'	I	517"			<u></u>
	TOP (MD)							Z 3/8	1_20	21/		.	
	TOP (MD)						-		1			1	
		ise and	number)			82.			FRACT	URE, CEMEN	T SQI	JEEZE, ETC.	
	COED (Interval, e			2; 5596	;	S2. DEPTH 1N2	ACI	D, SHOT.	MY	III GHA TKUO	ID OF	MATERIAL USED	
11. PERFORATION ES	lect fire	shot	at 5622				ACI	D, SHOT.	500 · g	gallons 1	т ог 5 % - а	miterial USED acid 355,00	
One .39" Se	lect fire s	shot 5, 55	at 5622 32; 550			DEPTH 1N	ACI	D, SHOT.	500 · g	gallons l sand, l	5%·a	acid 355,00 88-gallons	
One .39" Se 5578; 5548;	lect fire s	shot 5, 55	at 5622 32; 550			DEPTH 1N	ACI	D, SHOT.	500 · g	gallons 1	5%·a	acid 355,00 88-gallons	
One .39" Se 5578; 5548; 5430; 5426;	lect fire s	shot 5, 55	at 5622 32; 550		4 •,	5418-56	ACI	D, SHOT.	500 · g	gallons l sand, l	5%·a	acid 355,00 88-gallons	
One .39" Se 5578; 5548; 5430; 5426;	lect fire : 5538, 553: 5422; and	shot 5, 55 5418	at 5622 32; 550	08; 544	PROF	5418-56	ACII	D. SHOT.	500·§ 20/40 3,789	gallons 1 0 sand; 1 0,759 scf	5% a 8263 nit	acid 355,00 88-gallons	70%·f
One .39" Se 5578; 5548; 5430; 5426;	lect fire s 5538, 5533 5422; and	shot 5, 55 5418	at 5622 32; 550	08; 544	PROF	5418-56	ACII	D. SHOT.	500·§ 20/40 3,789	gallons 1 0 sand, 1 0,759 scf	5% a 8263 nit	mitteral Used acid 355,00 38 gallons crogen.	70%·f
One .39" Se 5578; 5548; 5430; 5426; BATE FIRST PRODUCT	lect fire s 5538, 5533 5422; and	shot 5, 55 5418 occrion owing	at 5622 32; 550	Flowing, g	PROF as lift, po	5418-56	ACII	D. SHOT.	500 · g 20/40 3,789	gallons 1 0 sand; 1 0,759 scf	STATI	mitteral Used acid 355,00 38 gallons crogen.	70%·f
One .39" Se 5578; 5548; 5430; 5426; 5430; 5426; 5430, 5426; 5430, 5426;	lect fire : 5538, 553: 5422; and	Shot 5, 55 5418 DUCTION DWING	at 5622 32; 550	Flowing, g	PROI	5418-56 DUCTION Imping—size	ACII	D. SHOT. (MB)	500 · g 20/40 3,789	gallons 1 0 sand, 1 0,759 scf	STATE UCITE	miterial USED acid 355,00 88 gallons rogen. US (Producing on gas acid state	70%·f
One .39" Se 5578; 5548; 5430; 5426; BATE FIRST PRODUCT	lect fire s 5538, 553: 5422; and TIOK PROF	Shot 5, 55 5418 DUCTION DWING	at 5622 32; 550	Flowing, g	PROF	5418-56 DUCTION Imping—eize	ACII	D. SHOT. (MD) pe of pun GAS—NO	500 · g 20/40 3,789	gallons 1 0 sand; 1 9,759 scf	STATE UCITE	mitterial USED acid 355,00 88 gallons rogen. US (Producing only GAB-OIL RATIO	70%·f
One .39" Se 5578; 5548; 5430; 5426; 5430; 5426; DATE FIRST PRODUCE 6/30/88 · DATE OF TEST 7/4/88 · FLOW. TUBING PRESS. 360 ·	TIOK PROESEL 530	Shot 5, 55 5418 DUCTION DWING 12	METHOD () HOKE SIZE 2/64 -HOUR RAT	Flowing, g	PROI Ga lift, po N. FOE PERIOD BBL.	5418-56 DUCTION Imping—alte OIL—BEL. 33	ACU	D. SHOT. (MD) pe of pun GAS—NO	500·8 20/40 3,789	gallons 1 0 sand, 1 0,759 scf	BTATILL AC.	MATERIAL USED acid 355,00 38 gallons crogen. US (Producing on IG	70%·f
51. PERFORATION ER One .39" Se 5578; 5548; 5430; 5426; 5430; 5426; 6/30/88 . DATE OF TEST 7/4/88 . FLOW. TUBING PRESS. 360 . 54. DISPOSITION OF	TION PROTESTED 24.	Shot 5, 55 5418 DECTION DWING 12 THE 24	METHOD (METHOD (METHOD (MALCULATED ALCULATED ALCULATED ACCULATED AC	Flowing, g	PROI as lift, ps N. FOR PERIOD BBL.	5418-56 DUCTION Imping-size OIL—BEL. 33	ACU DERVAL 22 -	D. SHOT. (MD) pe of pun GAS—NO	500 · g 20/40 3,789	well show water as a series of the series of	BTATILE AC . OIL	MATERIAL USED acid 355,00 38 gallons crogen. US (Producing only GRAVITY-API (COM	70%·f
One .39" Se 5578; 5548; 5430; 5426; 5430; 5426; BATE FIRST PRODUCE 6/30/88 · DATE OF TEST 7/4/88 · FLOW. TUBING PRESS. 360 · Vented (wil	TION PROTESTED 24. CASING PRESENT 530 GAS (Bold, weed for 1 be sold as 1 certains and 1 certai	Shot 5, 55 5418 DECTION DWING 12 THE 24	METHOD (METHOD (METHOD (MALCULATED ALCULATED ALCULATED ACCULATED AC	Flowing, g	PROI as lift, ps N. FOR PERIOD BBL.	5418-56 DUCTION Imping-size OIL—BEL. 33	ACU DERVAL 22 -	D. SHOT. (MD) pe of pun GAS—NO	500 · g 20/40 3,789	gallons 1 0 sand, 1 0,759 scf	BTATILE AC . OIL	MATERIAL USED acid 355,00 38 gallons crogen. US (Producing only GRAVITY-API (COM	70%·f
One .39" Se 5578; 5548; 5430; 5426; BATE FIRST PRODUCE 6/30/88. PLOW. TUBING PRESS. 360. 84. DISPOSITION OF Vented (Will 35. LIST OF ATTACK	TION PROBLEM SANDERS S	Shot 5, 55 5418 DECTION DWING 12 THE 24	METHOD (METHOD (METHOD (MALCULATED ALCULATED ALCULATED ACCULATED AC	Flowing, g	PROI as lift, ps N. FOR PERIOD BBL.	5418-56 DUCTION Imping-size OIL—BEL. 33	ACU DERVAL 22 -	D. SHOT. (MD) pe of pun GAS—NO	500 · g 20/40 3,789	well show water as a series of the series of	BTATILE AC . OIL	MATERIAL USED acid 355,00 38 gallons crogen. US (Producing only GRAVITY-API (COM	70%·f
31. FERFORATION BE One .39" Se 5578; 5548; 5430; 5426; 3430; 5426; DATE FIRST PRODUCE 6/30/88. DATE OF TEST 7/4/88. FLOW. TURING PRESS. 360. 34. DISPOSITION OF Vented (will 35. LIST OF ATTACK All sent pr	TION FROM THOURS TESTED 24 CARING PRESENT 530 GAB (Bold, weed for 1 be sold in the service of the service	Shot 5, 55 5418 DECTION OWING 12 THE 24 OF Juel, v	METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (Flowing, g	PROD Ga lift, pa N. FOE PERIOD BBL Trogen	5418-56 DUCTION Imping—else OIL—BEL. 33 ' GAR— 19	ACU DERVAL 22 ·	pe of pum GAB—NG 198	3,789 3,789 WATER-	gallons 1 0 sand; 1 0,759 scf	5%.a 8263 nit stantucin ucin ac.	MATERIAL USED acid 355,00 88 gallons crogen. US (Producing on 18 6000 GRAVITY-API (COI	70%·f
31. PERPORATION BE One .39" Se 5578; 5548; 5430; 5426; 33.* DATE FIRST PRODUC 6/30/88.* DATE OF TEST 7/4/88.* FLOW. TURING PRESS. 360.* 36. DIRPOSITION OF Vented (Will 35. LIST OF ATTACK	TION FROM THOURS TESTED 24 CARING PRESENT 530 GAB (Bold, weed for 1 be sold in the service of the service	Shot 5, 55 5418 DECTION DWING CI 12 F fuel, v as so	METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD	Flowing, g	PROI os lift, po N. FOR PERIOD BBL rogen	5418-56 DUCTION Imping-size OIL—BEL. 33 ' CAR— 19 recovered	ACU DERVAL 22 · and fy	D. SHOT. (MD) pe of pus GAS—NG 198	3,789 3,789 3,789	gallons 1) sand, 1),759 scf WELL Prod WATER—BE 3.67 fr. Robert F	STATE AND THE COLUMN T	MATERIAL USED acid 355,00 38-gallons crogen. US (Producing only GRAVITY-API (CO) GRAVITY-API (CO) CEZ	70%·f
31. FERFORATION BE One .39" Se 5578; 5548; 5430; 5426; 3430; 5426; DATE FIRST PRODUCE 6/30/88. DATE OF TEST 7/4/88. FLOW. TURING PRESS. 360. 34. DISPOSITION OF Vented (will 35. LIST OF ATTACK All sent pr	TION FROM THOURS TESTED 24 CARING PRESENT 530 GAB (Bold, weed for 1 be sold in the service of the service	Shot 5, 55 5418 DECTION DWING CI 12 F fuel, v as so	METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD (METHOD	Flowing, g	PROI os lift, po N. FOR PERIOD BBL rogen	5418-56 DUCTION Imping—else OIL—BEL. 33 ' GAR— 19	ACU DERVAL 22 · and fy	D. SHOT. (MD) pe of pus GAS—NG 198	3,789 3,789 3,789	gallons 1) sand, 1),759 scf WELL Prod WATER—BE 3.67 fr. Robert F	STATE AND THE COLUMN T	MATERIAL USED acid 355,00 88 gallons crogen. US (Producing on 18 6000 GRAVITY-API (COI	70%·f

Dunn 15 '

RECEIVED BLM MAIL ROOM

88 JUL -7 AM II: 03

Dunn 15	FARMINGTON RESOURCE AREA
(Well Name)	FARMINGTON, NEW MEXICO
Sec 9, T23N, R7W NMPM	
(Sec, T, R)	
SF-078272 (Lease No.)	
,	
The following summarizes the cemer of 3160-4 and the approved APD.	nt job on the above well as required by item 28
8-5/8" surface casing 20	8' to surface. 158' sacks
Class B. 2% CaCl, 1/4# flocele	per sack mixed at 15.6 ' lbs with a yield
of 1.18' or 186.44' cubic fe	eet. Cement circulated to surface.
4-1/2" casing, Stage 1:	T.D. to 4690 · '. Ran 10 · barrels
mud flush, 403 sacks Class H.	mixed with 2% CaCl, 8 · 1bs salt per
sack, 1/2# flocele per sack, 6 ½	· lbs Gilsonite per sack. Mixed at 15.2. lbs
	et per sack or a total of 555 cubic feet.
About 98 bbls slurry Cement was not designed to circula	ate above DV tool. It did not circulate
above DV tool. Top of cement is	5052
4-1/2" casing, Stage 2:	4690 ' to surface. Waited 4. hours for
	of water, 20 bbls. of Flo Check, 5
barrels of water. 1275 sacks	of 65/35 Class H . poz mix mixed with
3% gel, $12\frac{1}{2}$ # Gilsonite per sack, 5	.6# salt per sack, 8.2# Calseal per sack.
Mixed at 13 · lbs per gallon wit	h a yield of <u>1.78</u> cubic feet per sack or a
total of 2270 cubic feet. Ceme	ut 405 bbls slurry). nt was designed to circulate. It circulated
85 · barrels of <u>cement</u> .	

5 BLM; 1 - HLB,	RR, DS, file = 9 copies								
(Formerly 9-331) DEP	ARTMENT OF THE INTERIOR	latructions on re-	5. LEASE DESIGNATION	AND BELIAL NO.					
E	SF-078272								
CHNIDDY	NOTICES AND REPORTS ON WELA	IVED K ROOM	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME					
450	- managed to dell on to down as ning back to a differ								
Use =/	PPLICATION FOR PERMIT—" for such proposals	_AM 11: 01	7. UNIT AGREEMENT NA						
OIL GAS	FARMINGTON RI	CONTRACT AREA	t. out subblish Ri	K. E.					
2. NAME OF OPERATOR	FARMINGTON.	,根据 MEXICO	8. FARM OR LEASE HAM:	E					
В	CO, INC.	<u>. </u>	Dunn						
3. ADDRESS OF OPERATOR			9. WHLL NO.						
	35. Grant Ave., Santa Fe, N.M. 8750 tation clearly and in accordance with any State requirem		15 10. PIELD AND POOL, OR						
See also space 17 below.) At surface	•			W ILDCAT					
	745' FSL and 790' FWL		Lyhrook Gallup	X. AND					
	Section 9 T23N R7W NMPM Rio Arriba County		SURVEY OR AREA						
	· · · · · · · · · · · · · · · · · · ·		Sec 9 T23N R7W						
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, ET, CR, etc.) GR 7130		Rio Arriba						
			<u> </u>	New Mexi					
16. Che	ck Appropriate Box To Indicate Nature of Not	tice, Report, or C	other Data						
NOTICE 0	F INTENTION TO:	HUBERQU	ENT ERPORT OF:						
TEST WATER SHUT-OFF	PULL OR ALTER CASING WATER	SHUT-OFF	BEPAIRING W	EZ.L					
FRACTURE TREAT		TE TREATMENT	ALTERING CAL						
SHOOT OR ACIDIZE	CHANGE PLANS (Other)	HE OF TCIDIZING XX	ABANDONMENT						
(Other)	· (N	OTE: Report results	of multiple completion or etion Report and Log form						
•	-								
une 13, 1988 ·	Moved to location. Rigged up.	Tagged cement	at 4591.						
	Drilled to 4689 where tagged	DV tool. Dr	illed through D	٧.					
	Drilled to 4689 where tagged Tagged cement at 6350 Drille	float collar ed to 6604 · '	at 6590". which is PBTD.						
	Rolled hole with KCL. Came out.	· :							
	Schlumberger ran Thermal Decay Tir	me Log. Comper	nsated Neutron a	nd Cement					
une 15, 1988	BI K &X& XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX So	chlumberger . Will so	end two					
	Bond Log Log to BLM and one to OCD. Determined top of								
	first stage cement is 5052.								
	Perforated with one $3-1/8$ " $0.39 \cdot$ " select fire shot at $6573 \cdot$ ',								
	6571.', 6432.', 6428.', 6425.'	6422 641	12· ', 6410· '	,					
me 16, and 18, 1988	6408 ' and 6406 '. Went in with	n straddle pa	ckers. Spotted	500 .					
ine 20, 1988 ·	gallons 715. % double inhibited HO		_						
	Determined perfs at 6573 & 6571 or permission of Ken Townsend of BLM	_							
1. I hereby certify that the fore	oir is true and correct bailer to, place about	ut 5_sacks of	cement on top o	f bridge					
SIGNED Elizabeth	B. Kees and correct bailer to place about plug to abandon 657	l -65/3 lent	_ DATE	188					
(This space for Federal or St	ite office use)	7 A -	7,000 P. N. 119						
APPROVED BY	TITLE	GEIME	DATE						
CONDITIONS OF APPROVAL	LIP ANY:	- U U E	7/10						
	J	UL I 4 1988		•					
	*See Instructions on ReQH S	- ± 1308							
•	See Instructions on Kerelie 1	WON. DIV	The Control of the Co						
Telle 13 T C T (with a 100).	-1876 5 17 4 251- 17 154 45 17 2015 5 RMOCC 25 4 41 P	UIST. 3							

SUNDRY NOTICES AND REPORTS ON WELLS Lease No. SF-078272

Dunn 15

Page Two

June 23, 1988 · Treated 30,000 gallons of water with 120 gallons TRI-S, 60 gallons of 3N, 3750 lbs KCL, 30 gallons LP55 scalecheck, 650 lbs WG-11, 100 lbs HYG-3, 200 lbs K-34 and 20 lbs GBW-30. Sand water foam fracked (70 %) 6404 '- 6432 with $\underline{24707}$ gallons of foam, $\underline{110.000}$ lbs $\underline{20-40}$ sand, standard cubic feet of nitrogen. Average treating pressure 4900 lbs at 24 foam bbls per minute. Sanded off: Determined Graneros was tight and not capable of producing hydro-June 27, 1988 . carbons. With verbal permission of BLM set bridge plug at 5750. Spotted rive sacks of cement on top of plug. PBTD is 5740'. Perforated with one 3-1/8" $0.39 \cdot$ " select fire shot at 5644! , 5622' , 5596' , 5578' , 5548! 5538 5 5532 , 5508, , 5444 and 5430 Set straddle packers. Spotted 500 gallons 15 % double inhibited HCL acid. Broke June 28, 1988 down each perforation. Shot at 5644 did not penetrate. Treated 60000 gallons of water with 300. gallons TRI-S, 120. June 29, 1988 · gallons of 3N, 5600 lbs of KCL, 60 · gallons LP-55 scalecheck, 650 · 1bs WG-11, 150 · 1bs HYG-3, 350 · 1bs K-34 and 35 · 1bs GBW-30. Sand water foam fracked (70%) 5418 '-5622 ' with 182638 gallons of foam, 355,000 lbs 20/40 sand, 3,789,759 standard cubic feet of nitrogen. Average treating pressure 3950 lbs at 40 foam bbls per minute. ISIP 2850, 5 min 2000, 10 min 1960 · , 15 min 1960 · . June 30, 1988 Well flowing to frac tank. Went in with expandable check on 2-3/8" tubing. Tagged sand at 5622 · '. Cleaned out to 5740 · Landed 2-3/8" tubing at '. Pumped out expandable check. Put to flow at 1:15 p.m. July 5, 1988 · Determined initial potential of Gallup is 33 BOPD and 198 MCF of gas with 3.67 bbls of recovered frac water. Tubing pressure was

360 ; casing pressure 530